

## Tau Monoclonal Antibody (HT7)

Catalog Number **MN1000**

Product data sheet

Details		Species Reactivity	
Size	100 ug	Tested species reactivity	Bovine, Human
Host/Isotope	Mouse / IgG1, kappa	Published species reactivity	Rat, Non-human primate, Human, Mouse, Not Applicable
Class	Monoclonal		
Type	Antibody	Tested Applications	Dilution *
Clone	HT7	ELISA (ELISA)	Assay Dependent
Immunogen	Purified human Tau, epitope human Tau between residue 159 and 163 (numbering according to human Tau40), corresponding to the amino acid sequence PPGQK.	Immunocytochemistry (ICC)	1:500-1:2000
		Immunofluorescence (IF)	1:500-1:2000
Conjugate	Unconjugated	Immunohistochemistry (Paraffin) (IHC (P))	1:500-1:2000
Form	Liquid	Western Blot (WB)	Assay Dependent
Concentration	0.2 mg/ml	Published Applications	
Purification	Protein A	Immunohistochemistry (Paraffin) (IHC (P))	See 3 publications below
Storage buffer	PBS	Immunocytochemistry (ICC)	See 5 publications below
Contains	no preservative	Western Blot (WB)	See 55 publications below
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles	Neutralization (Neu)	See 1 publications below
		Miscellaneous PubMed (MISC)	See 1 publications below
		Immunohistochemistry (IHC)	See 23 publications below
		Immunohistochemistry - Free Floating (IHC (Free))	See 1 publications below
		Immunoprecipitation (IP)	See 2 publications below
		ELISA (ELISA)	See 6 publications below

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

### Product specific information

MN1000 targets Tau in ELISA, IF, ICC, IHC (P), and WB applications and shows reactivity with Bovine, and Human samples.

The MN1000 immunogen is purified human Tau, epitope human Tau between residue 159 and 163 (numbering according to human Tau40), corresponding to the amino acid sequence PPGQK.

MN1000 detects Tau which has a predicted molecular weight of approximately 79 kDa.

### Background/Target Information

Paired helical filament (PHF) is a major component of the neurofibrillary tangles involved in the pathology of Alzheimer and quote;s disease. PHFs are composed of the microtubule-associated protein tau in a hyper-phosphorylated state (ref1). Tau protein is produced by a single gene expressed predominantly in neurons. The Tau gene undergoes complex alternative splicing, yielding six different isoforms of tau in the adult brain. Following translation, the tau protein can be further modified by phosphorylation at several different sites

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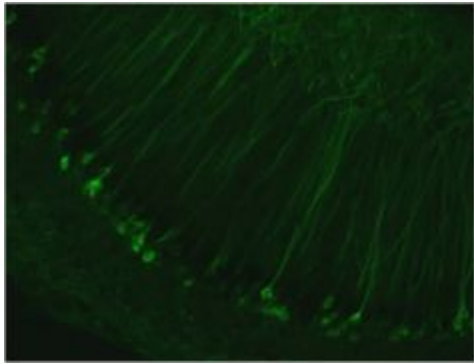
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## Product Images For Tau Monoclonal Antibody (HT7)

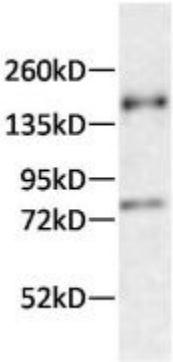


### Tau Antibody (MN1000) in IF

Immunohistochemistry was performed on paraformaldehyde-fixed free-floating hippocampus tissue sections from transgenic (3xTg-AD) mice that express human Tau. Tissues were blocked in 5% normal horse serum and 0.4% Triton X-100 for 60 minutes at room temperature and probed with a Tau monoclonal antibody (Product # MN1000) at a dilution of 1:1000 at 4°C overnight. Tissues were washed extensively with PBS. Detection was performed using a fluorophore-conjugated anti-mouse IgG secondary antibody at a dilution of 1:1000. Tissues were visualized by fluorescence microscopy. Data courtesy of the Innovators Program.

### Tau Antibody (MN1000) in WB

Western blot analysis of human Tau was performed by loading 15ug of sarkosyl-soluble cortex lysate from transgenic (3xTg-AD) mice that express human Tau per well onto an SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% milk + 0.5% BSA in PBST buffer for 1 hour at room temperature. The membrane was probed with a Tau monoclonal antibody (Product # MN1000) at a dilution of 1:1000 at 4°C overnight, washed in PBST, and probed with an HRP-conjugated anti-mouse IgG secondary antibody at a dilution of 1:60,000. Detection was performed using a chemiluminescent substrate. Data courtesy of the Innovators Program.



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## PubMed References For Tau Monoclonal Antibody (HT7)

### 3 Immunohistochemistry (Paraffin) References

Species / Dilution	Summary
	MN1000 was used in immunohistochemistry - paraffin section to characterize nuclear indentations that are tau-positive in P301S tauopathy mice
Not Applicable / Not Cited	Brain pathology (Zurich, Switzerland) (May 2017; 27: 314) <b>"Tau-positive nuclear indentations in P301S tauopathy mice."</b> Author(s):Fernández-Nogales M,Santos-Galindo M,Merchán-Rubira J,Hoozemans JJM,Rábano A,Ferrer I,Avila J,Hernández F,Lucas JJ PubMed Article URL: <a href="http://dx.doi.org/10.1111/bpa.12407">http://dx.doi.org/10.1111/bpa.12407</a>
Not Applicable / 1:100	MN1000 was used in immunohistochemistry - paraffin section to study alteration of MAP2 splicing in Huntington's disease  Brain pathology (Zurich, Switzerland) (Mar 2017; 27: 181) <b>"MAP2 Splicing is Altered in Huntington's Disease."</b> Author(s):Cabrera JR,Lucas JJ PubMed Article URL: <a href="http://dx.doi.org/10.1111/bpa.12387">http://dx.doi.org/10.1111/bpa.12387</a>
Not Applicable / 1:500	MN1000 was used in immunohistochemistry - paraffin section to elucidate a mouse model of frontotemporal dementia by decreased social exploration, impulsivity, and executive dysfunction  Neurobiology of learning and memory (Apr 2016; 130: 34) <b>"Impulsivity, decreased social exploration, and executive dysfunction in a mouse model of frontotemporal dementia."</b>  Author(s):Van der Jeugd A,Vermaercke B,Halliday GM,Staufenbiel M,Götz J PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.nlm.2016.01.007">http://dx.doi.org/10.1016/j.nlm.2016.01.007</a>

### 5 Immunocytochemistry References

Species / Dilution	Summary
	MN1000 was used in immunocytochemistry and western blot to investigate how TRIM21 neutralizes tau seeds
Human / Not Cited	Proceedings of the National Academy of Sciences of the United States of America (Jan 2017; 114: 574) <b>"Cytosolic Fc receptor TRIM21 inhibits seeded tau aggregation."</b> Author(s):McEwan WA,Falcon B,Vaysburd M,Clift D,Oblak AL,Ghetti B,Goedert M,James LC PubMed Article URL: <a href="http://dx.doi.org/10.1073/pnas.1607215114">http://dx.doi.org/10.1073/pnas.1607215114</a>
Not Applicable / 1:500	MN1000 was used in immunocytochemistry to characterize live neurons cultured from adult P301S tau mice by use of the fluorescent pentameric oligothiophene pFTAA that identifies filamentous tau  Frontiers in neuroscience (Jun 2015; 9: null) <b>"The fluorescent pentameric oligothiophene pFTAA identifies filamentous tau in live neurons cultured from adult P301S tau mice."</b> Author(s):Brelstaff J,Ossola B,Neher JJ,Klingstedt T,Nilsson KP,Goedert M,Spillantini MG,Tolkovsky AM PubMed Article URL: <a href="http://dx.doi.org/10.3389/fnins.2015.00184">http://dx.doi.org/10.3389/fnins.2015.00184</a>
Human / 1:1000	MN1000 was used in immunocytochemistry and western blot to test if CHIP ameliorates the pathological changes associated with tau aggregation.  Journal of Alzheimer's disease : JAD (Feb 2015; 44: 937) <b>"Carboxy terminus heat shock protein 70 interacting protein reduces tau-associated degenerative changes."</b> Author(s):Saidi LJ,Polydoro M,Kay KR,Sanchez L,Mandelkow EM,Hyman BT,Spires-Jones TL PubMed Article URL: <a href="http://dx.doi.org/10.3233/JAD-142094">http://dx.doi.org/10.3233/JAD-142094</a>
Not Applicable / 1:500	MN1000 was used in immunocytochemistry and western blot to determine seeding potencies of recombinant and native Tau aggregates due to conformation  The Journal of biological chemistry (Jan 2015; 290: 1049) <b>"Conformation determines the seeding potencies of native and recombinant Tau aggregates."</b> Author(s):Falcon B,Cavallini A,Angers R,Glover S,Murray TK,Barnham L,Jackson S,O'Neill MJ,Isaacs AM,Hutton ML,Szekeres PG,Goedert M,Bose S PubMed Article URL: <a href="http://dx.doi.org/10.1074/jbc.M114.589309">http://dx.doi.org/10.1074/jbc.M114.589309</a>

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	MN1000 was used in immunocytochemistry and immunohistochemistry to study the effects of a pathogenic tau fragment on hippocampal neurogenesis, behaviour and learning
Mouse / 1:300	Neurobiology of aging (Nov 2013; 34: 2551) <b>"Impact of N-tau on adult hippocampal neurogenesis, anxiety, and memory."</b> Author(s):Pristerà A,Sarauli D,Farioli-Vecchioli S,Strimpakos G,Costanzi M,di Certo MG,Cannas S,Ciotti MT,Tirone F,Mattei E,Cestari V,Canu N PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.neurobiolaging.2013.05.010">http://dx.doi.org/10.1016/j.neurobiolaging.2013.05.010</a>
<b>55 Western Blot References</b>	
Species / Dilution	Summary
	MN1000 was used in western blot to study the Alzheimer's disease brain for a decrease in HNK-1 carrier glycoproteins
Not Applicable / Not Cited	Molecular neurobiology (Jan 2017; 54: 188) <b>"HNK-1 Carrier Glycoproteins Are Decreased in the Alzheimer's Disease Brain."</b> Author(s):García-Ayllón MS,Botella-López A,Cuchillo-Ibañez I,Rábano A,Andreassen N,Blennow K,Ávila J,Sáez-Valero J PubMed Article URL: <a href="http://dx.doi.org/10.1007/s12035-015-9644-x">http://dx.doi.org/10.1007/s12035-015-9644-x</a>
	MN1000 was used in western blot characterize an Alzheimer's disease model that utilizes Octodon degus
Rat / 1:1000	Acta neuropathologica communications (Aug 2016; 4: null) <b>"Revisiting rodent models: Octodon degus as Alzheimer's disease model?"</b> Author(s):Steffen J,Krohn M,Paarmann K,Schwitlick C,Brüning T,Marreiros R,Müller-Schiffmann A,Korth C,Braun K,Pahnke J PubMed Article URL: <a href="http://dx.doi.org/10.1186/s40478-016-0363-y">http://dx.doi.org/10.1186/s40478-016-0363-y</a>
	MN1000 was used in western blot identify and characterize a DYRK1A inhibitor
Human / 1:1000	Disease models and mechanisms (Aug 2016; 9: 839) <b>"A chemical with proven clinical safety rescues Down-syndrome-related phenotypes in through DYRK1A inhibition."</b> Author(s):Kim H,Lee KS,Kim AK,Choi M,Choi K,Kang M,Chi SW,Lee MS,Lee JS,Lee SY,Song WJ,Yu K,Cho S PubMed Article URL: <a href="http://dx.doi.org/10.1242/dmm.025668">http://dx.doi.org/10.1242/dmm.025668</a>
	MN1000 was used in western blot to study a novel therapeutic strategy for Alzheimer's disease via Pim1 inhibition
Not Applicable / 1:3000	Molecular neurodegeneration (Jul 2016; 11: null) <b>"Pim1 inhibition as a novel therapeutic strategy for Alzheimer's disease."</b> Author(s):Velazquez R,Shaw DM,Caccamo A,Oddo S PubMed Article URL: <a href="http://dx.doi.org/10.1186/s13024-016-0118-z">http://dx.doi.org/10.1186/s13024-016-0118-z</a>
	MN1000 was used in western blot to investigate the axon initial segment in neurological disorders
Human / Not Cited	Molecular neurodegeneration (Jun 2016; 11: null) <b>"Acetylated tau destabilizes the cytoskeleton in the axon initial segment and is mislocalized to the somatodendritic compartment."</b> Author(s):Sohn PD,Tracy TE,Son HI,Zhou Y,Leite RE,Miller BL,Seeley WW,Grinberg LT,Gan L PubMed Article URL: <a href="http://dx.doi.org/10.1186/s13024-016-0109-0">http://dx.doi.org/10.1186/s13024-016-0109-0</a>
	MN1000 was used in western blot to assess induction of synaptic impairment and memory deficit by calcineurin-mediated inactivation of nuclear CaMKIV/CREB signaling due to tau accumulation
Not Applicable / 1:1000	Proceedings of the National Academy of Sciences of the United States of America (Jun 2016; 113: E3773) <b>"Tau accumulation induces synaptic impairment and memory deficit by calcineurin-mediated inactivation of nuclear CaMKIV/CREB signaling."</b> Author(s):Yin Y,Gao D,Wang Y,Wang ZH,Wang X,Ye J,Wu D,Fang L,Pi G,Yang Y,Wang XC,Lu C,Ye K,Wang JZ PubMed Article URL: <a href="http://dx.doi.org/10.1073/pnas.1604519113">http://dx.doi.org/10.1073/pnas.1604519113</a>
	MN1000 was used in western blot to assess induction of degradation of nicotinic acetylcholine receptor alpha4 via activating calpain-2 due to accumulation of human full-length tau
Not Applicable / 1:1000	Scientific reports (Jun 2016; 6: null) <b>"Accumulation of human full-length tau induces degradation of nicotinic acetylcholine receptor 4 via activating calpain-2."</b> Author(s):Yin Y,Wang Y,Gao D,Ye J,Wang X,Fang L,Wu D,Pi G,Lu C,Zhou XW,Yang Y,Wang JZ PubMed Article URL: <a href="http://dx.doi.org/10.1038/srep27283">http://dx.doi.org/10.1038/srep27283</a>

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	MN1000 was used in western blot to study the inner circular smooth muscle of the developing mouse intestine transcriptome: evidence that the hedgehog target gene, cJun, regulates visceral smooth muscle genes
Not Applicable / 1:2000	Developmental dynamics : an official publication of the American Association of Anatomists (May 2016; 245: 614) <b>"Transcriptome of the inner circular smooth muscle of the developing mouse intestine: Evidence for regulation of visceral smooth muscle genes by the hedgehog target gene, cJun."</b> Author(s):Gurdziel K,Vogt KR,Walton KD,Schneider GK,Gumucio DL PubMed Article URL: <a href="http://dx.doi.org/10.1002/dvdy.24399">http://dx.doi.org/10.1002/dvdy.24399</a>
Not Applicable / 1:2000	MN1000 was used in western blot to elucidate the exacerbation of human Tau neurotoxicity in vivo by acetylation mimic of lysine 280  Scientific reports (Mar 2016; 6: null) <b>"Acetylation mimic of lysine 280 exacerbates human Tau neurotoxicity in vivo."</b> Author(s):Gorsky MK,Burnouf S,Dols J,Mandelkow E,Partridge L PubMed Article URL: <a href="http://dx.doi.org/10.1038/srep22685">http://dx.doi.org/10.1038/srep22685</a>
Not Applicable / 1:200	MN1000 was used in western blot to study amelioration of tau pathology and cognition in the offspring of triple transgenic AD mice by maternal dexamethasone exposure  Molecular psychiatry (Mar 2016; 21: 403) <b>"Maternal dexamethasone exposure ameliorates cognition and tau pathology in the offspring of triple transgenic AD mice."</b> Author(s):Di Meco A,Joshi YB,Lauretti E,Praticò D PubMed Article URL: <a href="http://dx.doi.org/10.1038/mp.2015.78">http://dx.doi.org/10.1038/mp.2015.78</a>
Not Applicable / 1:1000	MN1000 was used in western blot to characterize tau pathology mouse models via obesity, diabetes, and leptin resistance  Neuroscience (Feb 2016; 315: 162) <b>"Obesity, diabetes, and leptin resistance promote tau pathology in a mouse model of disease."</b> Author(s):Platt TL,Beckett TL,Kohler K,Niedowicz DM,Murphy MP PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.neuroscience.2015.12.011">http://dx.doi.org/10.1016/j.neuroscience.2015.12.011</a>
Not Applicable / 1:1000	MN1000 was used in western blot to assess the impairment in synaptic plasticity and learning due to amyloid-beta dimers in the absence of plaque pathology  Brain : a journal of neurology (Feb 2016; 139: 509) <b>"Amyloid- dimers in the absence of plaque pathology impair learning and synaptic plasticity."</b> Author(s):Müller-Schiffmann A,Herring A,Abdel-Hafiz L,Chepkova AN,Schäble S,Wedel D,Horn AH,Sticht H,de Souza Silva MA,Gottmann K,Sergeeva OA,Huston JP,Keyvani K,Korth C PubMed Article URL: <a href="http://dx.doi.org/10.1093/brain/awv355">http://dx.doi.org/10.1093/brain/awv355</a>
Not Applicable / 1:3000	MN1000 was used in western blot to investigate Alzheimer's Disease in a mouse model where ribosomal protein S6 kinase is decreased  The Journal of neuroscience : the official journal of the Society for Neuroscience (Oct 2015; 35: 14042) <b>"Reducing Ribosomal Protein S6 Kinase 1 Expression Improves Spatial Memory and Synaptic Plasticity in a Mouse Model of Alzheimer's Disease."</b> Author(s):Caccamo A,Branca C,Talboom JS,Shaw DM,Turner D,Ma L,Messina A,Huang Z,Wu J,Oddo S PubMed Article URL: <a href="http://dx.doi.org/10.1523/JNEUROSCI.2781-15.2015">http://dx.doi.org/10.1523/JNEUROSCI.2781-15.2015</a>
Human / Not Cited	MN1000 was used in western blot to use rTg4510 mice to elucidate pathogenesis of tau-induced disease.  Molecular neurodegeneration (Mar 2015; 10: null) <b>"Analysis of tau post-translational modifications in rTg4510 mice, a model of tau pathology."</b> Author(s):Song L,Lu SX,Ouyang X,Melchor J,Lee J,Terracina G,Wang X,Hyde L,Hess JF,Parker EM,Zhang L PubMed Article URL: <a href="http://dx.doi.org/10.1186/s13024-015-0011-1">http://dx.doi.org/10.1186/s13024-015-0011-1</a>
Mouse / 1:1000	MN1000 was used in western blot to investigate the cerebral delivery of small interfering RNAs targeting human tau  Current gene therapy (Feb 2015; 14: 343) <b>"Tau silencing by siRNA in the P301S mouse model of tauopathy."</b> Author(s):Xu H,Rösler TW,Carlsson T,de Andrade A,Fiala O,Hollerhage M,Oertel WH,Goedert M,Aigner A,Höglinger GU PubMed Article URL: <a href="http://dx.doi.org/">http://dx.doi.org/</a>
Human / 1:5000	MN1000 was used in immunocytochemistry and western blot to test if CHIP ameliorates the pathological changes associated with tau aggregation.  Journal of Alzheimer's disease : JAD (Feb 2015; 44: 937) <b>"Carboxy terminus heat shock protein 70 interacting protein reduces tau-associated degenerative changes."</b> Author(s):Saidi LJ,Polydoro M,Kay KR,Sanchez L,Mandelkow EM,Hyman BT,Spires-Jones TL PubMed Article URL: <a href="http://dx.doi.org/10.3233/JAD-142094">http://dx.doi.org/10.3233/JAD-142094</a>

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	MN1000 was used in immunohistochemistry - paraffin section and western blot to characterize the behavioral, biochemical, and neuropathologic effects of 8ISO in the triple transgenic mouse model of Alzheimer's disease
Mouse / 1:200	Neurobiology of aging (Feb 2015; 36: 812) <b>"Modulation of AD neuropathology and memory impairments by the isoprostane F2 is mediated by the thromboxane receptor."</b> Author(s):Lauretti E,Di Meco A,Chu J,Praticò D PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.neurobiolaging.2014.10.005">http://dx.doi.org/10.1016/j.neurobiolaging.2014.10.005</a>
Human / Not Cited	MN1000 was used in western blot to assess the effect of aging on brain lipoxin A4 levels using non-transgenic and 3xTg-AD mice.  Journal of Alzheimer's disease : JAD (Dec 2014; 43: 893) <b>"Restoration of lipoxin A4 signaling reduces Alzheimer's disease-like pathology in the 3xTg-AD mouse model."</b> Author(s):Dunn HC,Ager RR,Baglietto-Vargas D,Cheng D,Kitazawa M,Cribbs DH,Medeiros R PubMed Article URL: <a href="http://dx.doi.org/10.3233/JAD-141335">http://dx.doi.org/10.3233/JAD-141335</a>
Mouse / 1:1000	MN1000 was used in western blot to determine whether there is a pathogenic interaction of the environmental toxin piericidin A from streptomyces spp. and the P301S mutation  PloS one (Dec 2014; 9: null) <b>"Piericidin A aggravates Tau pathology in P301S transgenic mice."</b> Author(s):Höllerhage M,Deck R,De Andrade A,Respondek G,Xu H,Rösler TW,Salama M,Carlsson T,Yamada ES,Gad El Hak SA,Goedert M,Oertel WH,Höglinger GU PubMed Article URL: <a href="http://dx.doi.org/10.1371/journal.pone.0113557">http://dx.doi.org/10.1371/journal.pone.0113557</a>
Mouse / Not Cited	MN1000 was used in western blot to investigate the interactions between Abeta1-42 and Abeta1-40  Molecular neurodegeneration (Nov 2014; 9: null) <b>"Tau pathogenesis is promoted by A1-42 but not A1-40."</b> Author(s):Hu X,Li X,Zhao M,Gottesdiener A,Luo W,Paul S PubMed Article URL: <a href="http://dx.doi.org/10.1186/1750-1326-9-52">http://dx.doi.org/10.1186/1750-1326-9-52</a>
Mouse / 1:200	MN1000 was used in western blot to study the deleterious effects of sleep deprivation on memory and Tau pathology in a murine Alzheimer's disease model  Neurobiology of aging (Aug 2014; 35: 1813) <b>"Sleep deprivation impairs memory, tau metabolism, and synaptic integrity of a mouse model of Alzheimer's disease with plaques and tangles."</b> Author(s):Di Meco A,Josh YB,Praticò D PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.neurobiolaging.2014.02.011">http://dx.doi.org/10.1016/j.neurobiolaging.2014.02.011</a>
Human / Not Cited	MN1000 was used in western blot to study the relationship of an Alzheimer's disease-linked SNP in the CLU gene and Tau  PloS one (Jul 2014; 9: null) <b>"Intracellular clusterin interacts with brain isoforms of the bridging integrator 1 and with the microtubule-associated protein Tau in Alzheimer's disease."</b> Author(s):Zhou Y,Hayashi I,Wong J,Tugusheva K,Renger JJ,Zerbinatti C PubMed Article URL: <a href="http://dx.doi.org/10.1371/journal.pone.0103187">http://dx.doi.org/10.1371/journal.pone.0103187</a>
Human / Not Cited	MN1000 was used in western blot to study the lack of involvement of GSK3-alpha/beta in the elevated tau phosphorylation observed in Tau.P30L hypothermic mice  The European journal of neuroscience (Jul 2014; 40: 2442) <b>"Terminal hypothermic Tau.P301L mice have increased Tau phosphorylation independently of glycogen synthase kinase 3/."</b> Author(s):Maurin H,Lechat B,Borghgraef P,Devijver H,Jaworski T, Van Leuven F PubMed Article URL: <a href="http://dx.doi.org/10.1111/ejn.12595">http://dx.doi.org/10.1111/ejn.12595</a>
Mouse / 1:1000	MN1000 was used in western blot to study the role of mTOR hyperactivation in the mechanism by which a high-sucrose diet promotes beta-amyloid pathology in Alzheimer's disease  Neurobiology of aging (Jun 2014; 35: 1233) <b>"Mammalian target of rapamycin hyperactivity mediates the detrimental effects of a high sucrose diet on Alzheimer's disease pathology."</b> Author(s):Orr ME,Salinas A,Buffenstein R,Oddo S PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.neurobiolaging.2013.12.006">http://dx.doi.org/10.1016/j.neurobiolaging.2013.12.006</a>

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	<p>MN1000 was used in western blot to study the effects of transgenically expressing a constitutively active Y531F Fyn mutant on murine life-span, activity and protein phosphorylation</p>
Human / 1:2000	<p>Frontiers in molecular neuroscience (May 2014; 7: null)  <b>"Premature lethality, hyperactivity, and aberrant phosphorylation in transgenic mice expressing a constitutively active form of Fyn."</b>            Author(s):Xia D,Götz J            PubMed Article URL:<a href="http://dx.doi.org/10.3389/fnmol.2014.00040">http://dx.doi.org/10.3389/fnmol.2014.00040</a></p>
Mouse / 1:500	<p>MN1000 was used in western blot to study the role of exaggerated Ca(2+) signaling mediated by InsP3 receptor1 in the pathogenesis of mutant presenilin-linked Alzheimer's disease</p> <p>The Journal of neuroscience : the official journal of the Society for Neuroscience (May 2014; 34: 6910)  <b>"Suppression of InsP3 receptor-mediated Ca2+ signaling alleviates mutant presenilin-linked familial Alzheimer's disease pathogenesis."</b>            Author(s):Shilling D,Müller M,Takano H,Mak DO,Abel T,Coulter DA,Foskett JK            PubMed Article URL:<a href="http://dx.doi.org/10.1523/JNEUROSCI.5441-13.2014">http://dx.doi.org/10.1523/JNEUROSCI.5441-13.2014</a></p>
Mouse / 1:1000	<p>MN1000 was used in western blot to study the increased tau phosphorylation following treatment with a mitochondrial complex I inhibitor in a tau transgenic mouse model</p> <p>Experimental neurology (Mar 2014; 253: 113)  <b>"Annonacin, a natural lipophilic mitochondrial complex I inhibitor, increases phosphorylation of tau in the brain of FTDP-17 transgenic mice."</b>            Author(s):Yamada ES,Respondek G,Müssner S,de Andrade A,Höllerhage M,Depienne C,Rastetter A,Tarze A,Friguet B, Salama M,Champy P,Oertel WH,Höglinger GU            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.expneurol.2013.12.017">http://dx.doi.org/10.1016/j.expneurol.2013.12.017</a></p>
Human / 1:5000	<p>MN1000 was used in western blot to study the effect of endogenous murine tau on cognition and neurofibrillary tangles in a murine Alzheimer's disease model transgenically expressing human tau</p> <p>Neurobiology of disease (Feb 2014; 62: 407)  <b>"Endogenous murine tau promotes neurofibrillary tangles in 3xTg-AD mice without affecting cognition."</b>            Author(s):Baglietto-Vargas D,Kitazawa M,Le EJ,Estrada-Hernandez T,Rodriguez-Ortiz CJ,Medeiros R,Green KN,LaFerla FM            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.nbd.2013.10.019">http://dx.doi.org/10.1016/j.nbd.2013.10.019</a></p>
Human / 1:50,000	<p>MN1000 was used in western blot to study a site-specific rabbit monoclonal antibody that recognizes serine 400 O-GlcNAcylated tau</p> <p>FEBS letters (Nov 2013; 587: 3722)  <b>"Generation and characterization of a rabbit monoclonal antibody site-specific for tau O-GlcNAcylated at serine 400."</b>            Author(s):Cameron A,Giacomozzi B,Joyce J,Gray A,Graham D,Ousson S,Neny M,Beher D,Carlson G,O'Moore J,Shearman M,Hering H            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.febslet.2013.09.042">http://dx.doi.org/10.1016/j.febslet.2013.09.042</a></p>
Mouse / 1:5000	<p>MN1000 was used in western blot to study the reduced alpha- and beta-cleavage of APP and reduced phosphorylated tau accumulation in transgenic mice treated with mifepristone</p> <p>Biological psychiatry (Sep 2013; 74: 357)  <b>"Mifepristone alters amyloid precursor protein processing to preclude amyloid beta and also reduces tau pathology."</b></p> <p>Author(s):Baglietto-Vargas D,Medeiros R,Martinez-Coria H,LaFerla FM,Green KN            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.biopsych.2012.12.003">http://dx.doi.org/10.1016/j.biopsych.2012.12.003</a></p>
Mouse / Not Cited	<p>MN1000 was used in western blot to study the beneficial effects on tau pathology in a murine transgenic tauopathy model of the virally-mediated overexpression of soluble fractalkine</p> <p>Neurobiology of aging (Jun 2013; 34: 1540)  <b>"Fractalkine overexpression suppresses tau pathology in a mouse model of tauopathy."</b>            Author(s):Nash KR,Lee DC,Hunt JB,Morganti JM,Selenica ML,Moran P,Reid P,Brownlow M,Guang-Yu Yang C,Savalia M, Gemma C,Bickford PC,Gordon MN,Morgan D            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.neurobiolaging.2012.12.011">http://dx.doi.org/10.1016/j.neurobiolaging.2012.12.011</a></p>
Human / Not Cited	<p>MN1000 was used in western blot to study the biochemical/molecular changes associated with dementia pugilistica</p> <p>Journal of neurotrauma (Jun 2013; 30: 981)  <b>"Neurochemical profile of dementia pugilistica."</b>            Author(s):Kokjohn TA,Maarouf CL,Daugis ID,Hunter JM,Whiteside CM,Malek-Ahmadi M,Rodriguez E,Kalback W,Jacobson SA,Sabbagh MN,Beach TG,Rohrer AE            PubMed Article URL:<a href="http://dx.doi.org/10.1089/neu.2012.2699">http://dx.doi.org/10.1089/neu.2012.2699</a></p>

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	MN1000 was used in western blot to study the association of GSK3 activity with tau phosphorylation and neuronal tyrosine phosphorylation in a murine model expressing human P301L tau
Human / 1:40000	Neurobiology of aging (May 2013; 34: 1369) <b>"Active glycogen synthase kinase-3 and tau pathology-related tyrosine phosphorylation in pR5 human tau transgenic mice."</b> Author(s):Köhler C,Dinekov M,Götz J PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.neurobiolaging.2012.11.010">http://dx.doi.org/10.1016/j.neurobiolaging.2012.11.010</a>
Mouse / Not Cited	MN1000 was used in western blot to study the tau-induced loss of synapses in a murine model overexpressing the P301L mutant tau  The Journal of comparative neurology (Apr 2013; 521: 1334) <b>"Synaptic alterations in the rTg4510 mouse model of tauopathy."</b> Author(s):Kopeikina KJ,Polydoro M,Tai HC,Yaeger E,Carlson GA,Pitstick R,Hyman BT,Spires-Jones TL PubMed Article URL: <a href="http://dx.doi.org/10.1002/cne.23234">http://dx.doi.org/10.1002/cne.23234</a>
Human / Not Cited	MN1000 was used in western blot to study the ability of PINCH in bind and stabilize hyperphosphorylated tau  PloS one (Apr 2013; 8: null) <b>"PINCH in the cellular stress response to tau-hyperphosphorylation."</b> Author(s):Ozdemir AY,Rom I,Kovalevich J,Yen W,Adiga R,Dave RS,Langford D PubMed Article URL: <a href="http://dx.doi.org/10.1371/journal.pone.0058232">http://dx.doi.org/10.1371/journal.pone.0058232</a>
Human / Not Cited	MN1000 was used in western blot to study the effect of treatment with bapineuzumab on the beta-amyloid profile of Alzheimer's disease patients and the implications for the amyloid hypothesis  PloS one (Apr 2013; 8: null) <b>"Bapineuzumab alters a composition: implications for the amyloid cascade hypothesis and anti-amyloid immunotherapy."</b> Author(s):Roher AE,Cribbs DH,Kim RC,Maarouf CL,Whiteside CM,Kokjohn TA,Daugis ID,Head E,Liesack C,Serrano G,Belden C,Sabbagh MN,Beach TG PubMed Article URL: <a href="http://dx.doi.org/10.1371/journal.pone.0059735">http://dx.doi.org/10.1371/journal.pone.0059735</a>
Human / 1:2000	MN1000 was used in western blot to study the clinical and molecular characteristics of a novel P332S tau mutation  Journal of Alzheimer's disease : JAD (Sep 2012; 31: 741) <b>"Clinical, neuropathological, and biochemical characterization of the novel tau mutation P332S."</b> Author(s):Deramecourt V,Lebert F,Maurage CA,Fernandez-Gomez FJ,Dujardin S,Colin M,Sergeant N,Buée-Scherrer V,Clot F,Ber IL,Brice A,Pasquier F,Buée L PubMed Article URL: <a href="http://dx.doi.org/10.3233/JAD-2012-120160">http://dx.doi.org/10.3233/JAD-2012-120160</a>
Human / Not Cited	MN1000 was used in western blot to study the beneficial effects of a novel calpain inhibitor on Alzheimers's disease pathology and cognitive decline in transgenic mouse model  The American journal of pathology (Aug 2012; 181: 616) <b>"Calpain inhibitor A-705253 mitigates Alzheimer's disease-like pathology and cognitive decline in aged 3xTgAD mice."</b> Author(s):Medeiros R,Kitazawa M,Chabrier MA,Cheng D,Baglietto-Vargas D,Kling A,Moeller A,Green KN,LaFerla FM PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.ajpath.2012.04.020">http://dx.doi.org/10.1016/j.ajpath.2012.04.020</a>
Non-human primate / Not Cited	MN1000 was used in western blot to study the role of phosphorylation in the membrane-microdomain localization of amyloid ?-precursor protein C-terminal fragments  The Journal of biological chemistry (Jun 2012; 287: 19715) <b>"Membrane-microdomain localization of amyloid -precursor protein (APP) C-terminal fragments is regulated by phosphorylation of the cytoplasmic Thr668 residue."</b> Author(s):Matsushima T,Saito Y,Elliott JI,Iijima-Ando K,Nishimura M,Kimura N,Hata S,Yamamoto T,Nakaya T,Suzuki T PubMed Article URL: <a href="http://dx.doi.org/10.1074/jbc.M111.334847">http://dx.doi.org/10.1074/jbc.M111.334847</a>
Mouse / Not Cited	MN1000 was used in western blot to study the molecular and behavioural effects of deferroxamine in tau transgenic mice  Experimental brain research (Jun 2012; 219: 381) <b>"Intranasal deferroxamine improves performance in radial arm water maze, stabilizes HIF-1, and phosphorylates GSK3 in P301L tau transgenic mice."</b> Author(s):Fine JM,Baillargeon AM,Renner DB,Hoerster NS,Tokarev J,Colton S,Pelleg A,Andrews A,Sparley KA,Krogh KM,Frey WH,Hanson LR PubMed Article URL: <a href="http://dx.doi.org/10.1007/s00221-012-3101-0">http://dx.doi.org/10.1007/s00221-012-3101-0</a>

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	<p>MN1000 was used in western blot to study whether tau pathology is associated with BDNF downregulation in a transgenic mouse model</p>
Mouse / 1:2000	<p>Current Alzheimer research (May 2012; 9: 406)  <b>"Hippocampal BDNF expression in a tau transgenic mouse model."</b>            Author(s):Burnouf S,Belarbi K,Troquier L,Derisbourg M,Demeyer D,Leboucher A,Laurent C,Hamdane M,Buee L,Blum D            PubMed Article URL:<a href="http://dx.doi.org/null">http://dx.doi.org/null</a></p>
	<p>MN1000 was used in western blot to identify the relationship between acetylcholinesterase and P-tau expression in neurodegeneration</p>
Human / Not Cited	<p>Neurobiology of aging (Mar 2012; 33: 624.e23)  <b>"Altered expression of brain acetylcholinesterase in FTDP-17 human tau transgenic mice."</b>            Author(s):Silveyra MX,García-Ayllón MS,de Barreda EG,Small DH,Martínez S,Avila J,Sáez-Valero J            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.neurobiolaging.2011.03.006">http://dx.doi.org/10.1016/j.neurobiolaging.2011.03.006</a></p>
	<p>MN1000 was used in western blot to investigate the effect of prolonged NO treatment on the aggregation of tau in SH-SY5Y cells</p>
Human / Not Cited	<p>Neuroscience letters (Feb 2012; 510: 48)  <b>"Prolonged nitric oxide treatment induces tau aggregation in SH-SY5Y cells."</b>            Author(s):Takahashi M,Chin Y,Nonaka T,Hasegawa M,Watanabe N,Arai T            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.neulet.2011.12.067">http://dx.doi.org/10.1016/j.neulet.2011.12.067</a></p>
	<p>MN1000 was used in western blot to investigate the important roles of LRRK2 in phosphorylation-mediated dissociation of tau from microtubules</p>
Human / Not Cited	<p>PloS one (Feb 2012; 7: null)  <b>"LRRK2 phosphorylates tubulin-associated tau but not the free molecule: LRRK2-mediated regulation of the tau-tubulin association and neurite outgrowth."</b>            Author(s):Kawakami F,Yabata T,Ohta E,Maekawa T,Shimada N,Suzuki M,Maruyama H,Ichikawa T,Obata F            PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.pone.0030834">http://dx.doi.org/10.1371/journal.pone.0030834</a></p>
	<p>MN1000 was used in western blot to examine the brains of non-demented high pathology controls individuals for mechanisms that protect against Alzheimer's disease</p>
Not Applicable / Not Cited	<p>PloS one (Nov 2011; 6: null)  <b>"Alzheimer's disease and non-demented high pathology control nonagenarians: comparing and contrasting the biochemistry of cognitively successful aging."</b>            Author(s):Maarouf CL,Daugis ID,Kokjohn TA,Walker DG,Hunter JM,Kruchowsky JC,Woltjer R,Kaye J,Castaño EM,Sabbagh MN,Beach TG,Roher AE            PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.pone.0027291">http://dx.doi.org/10.1371/journal.pone.0027291</a></p>
	<p>MN1000 was used in western blot to study the deleterious effects of muscarinic M1 receptor knockout on Alzheimer's disease pathology and cognitive decline in a transgenic mouse model</p>
Mouse / 1:5000	<p>The American journal of pathology (Aug 2011; 179: 980)  <b>"Loss of muscarinic M1 receptor exacerbates Alzheimer's disease-like pathology and cognitive decline."</b>            Author(s):Medeiros R,Kitazawa M,Caccamo A,Baglietto-Vargas D,Estrada-Hernandez T,Cribbs DH,Fisher A,LaFerla FM            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.ajpath.2011.04.041">http://dx.doi.org/10.1016/j.ajpath.2011.04.041</a></p>
	<p>MN1000 was used in western blot to investigate the influence of hippocampal tauopathy in learning, memory and neural functions in transgenic mice</p>
Human / Not Cited	<p>Neurobiology of learning and memory (Mar 2011; 95: 296)  <b>"Hippocampal tauopathy in tau transgenic mice coincides with impaired hippocampus-dependent learning and memory, and attenuated late-phase long-term depression of synaptic transmission."</b>            Author(s):Van der Jeugd A,Ahmed T,Burnouf S,Belarbi K,Hamdane M,Grosjean ME,Humez S,Balschun D,Blum D,Buée L,D'Hooge R            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.nlm.2010.12.005">http://dx.doi.org/10.1016/j.nlm.2010.12.005</a></p>
	<p>MN1000 was used in western blot to evaluate the transfection vector for fluorescent fusion protei expression in 293T and SH-SY5Y cells</p>
Human / Not Cited	<p>Plasmid (May 2010; 63: 155)  <b>"Gateway-compatible lentiviral transfer vectors for ubiquitin promoter driven expression of fluorescent fusion proteins."</b>            Author(s):Krupka N,Strappe P,Götz J,Ittner LM            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.plasmid.2010.01.002">http://dx.doi.org/10.1016/j.plasmid.2010.01.002</a></p>

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	MN1000 was used in western blot to investigate the effect of GLP-1 receptor stimulation on amyloid-beta peptide accumulation and cytotoxicity in Alzheimer disease model
Human / 1:1000	Journal of Alzheimer's disease : JAD (Mar 2010; 19: 1205) <b>"GLP-1 receptor stimulation reduces amyloid-beta peptide accumulation and cytotoxicity in cellular and animal models of Alzheimer's disease."</b> Author(s):Li Y,Duffy KB,Ottinger MA,Ray B,Bailey JA,Holloway HW,Tweedie D,Perry T,Mattson MP,Kapogiannis D,Sambamurti K,Lahiri DK,Greig NH PubMed Article URL: <a href="http://dx.doi.org/10.3233/JAD-2010-1314">http://dx.doi.org/10.3233/JAD-2010-1314</a>
Human / 1:5000	MN1000 was used in western blot to investigate the effect of memantine on Alzheimer disease treatment in mice  The American journal of pathology (Feb 2010; 176: 870) <b>"Memantine improves cognition and reduces Alzheimer's-like neuropathology in transgenic mice."</b> Author(s):Martinez-Coria H,Green KN,Billings LM,Kitazawa M,Albrecht M,Rammes G,Parsons CG,Gupta S,Banerjee P,LaFerla FM PubMed Article URL: <a href="http://dx.doi.org/10.2353/ajpath.2010.090452">http://dx.doi.org/10.2353/ajpath.2010.090452</a>
Human / Not Cited	MN1000 was used in western blot to study the effect of alpha-synuclein on proteasome function  Biochemistry (Aug 2009; 48: 8014) <b>"A cellular model to monitor proteasome dysfunction by alpha-synuclein."</b> Author(s):Nonaka T,Hasegawa M PubMed Article URL: <a href="http://dx.doi.org/10.1021/bi900619j">http://dx.doi.org/10.1021/bi900619j</a>
Human / Not Cited	MN1000 was used in western blot to investigate familial Alzheimer disease with presenilin mutations  Molecular neurodegeneration (Nov 2008; 3: null) <b>"Histopathological and molecular heterogeneity among individuals with dementia associated with Presenilin mutations."</b> Author(s):Maarouf CL,Daugis ID,Spina S,Vidal R,Kokjohn TA,Patton RL,Kalback WM,Luehrs DC,Walker DG,Castaño EM,Beach TG,Ghetti B,Rohrer AE PubMed Article URL: <a href="http://dx.doi.org/10.1186/1750-1326-3-20">http://dx.doi.org/10.1186/1750-1326-3-20</a>
Rat / 1:400	MN1000 was used in western blot to study the mechanism for the induction of tau phosphorylation by amyloid beta peptide  Journal of neuroscience research (Jul 2008; 86: 2091) <b>"ER stress is involved in Abeta-induced GSK-3beta activation and tau phosphorylation."</b> Author(s):Resende R,Ferreiro E,Pereira C,Oliveira CR PubMed Article URL: <a href="http://dx.doi.org/10.1002/jnr.21648">http://dx.doi.org/10.1002/jnr.21648</a>
Human / Not Cited	MN1000 was used in western blot to quantify the abeta and tau pathologies in mild cognitive impairment and Alzheimer disease  Journal of Alzheimer's disease : JAD (Dec 2007; 12: 377) <b>"Biochemical characterization of Abeta and tau pathologies in mild cognitive impairment and Alzheimer's disease."</b> Author(s):Tremblay C,Pilote M,Phivilay A,Emond V,Bennett DA,Calon F PubMed Article URL: <a href="http://dx.doi.org/null">http://dx.doi.org/null</a>
Rat / Not Cited	MN1000 was used in western blot to study the contribution of heat-shock protein 90 towards tauopathies  Proceedings of the National Academy of Sciences of the United States of America (May 2007; 104: 9511) <b>"Roles of heat-shock protein 90 in maintaining and facilitating the neurodegenerative phenotype in tauopathies."</b> Author(s):Luo W,Dou F,Rodina A,Chip S,Kim J,Zhao Q,Moullick K,Aguirre J,Wu N,Greengard P,Chiosio G PubMed Article URL: <a href="http://dx.doi.org/10.1073/pnas.0701055104">http://dx.doi.org/10.1073/pnas.0701055104</a>

1 Neutralization References	
Species / Dilution	Summary
	MN1000 was used in blocking or activating experiment to assess the accumulation in the cerebrospinal fluid of seed-competent HMW tau species in an Alzheimer's disease mouse model and in human patients
Not Applicable / Not Cited	Annals of neurology (Sep 2016; 80: 355) <b>"Seed-competent high-molecular-weight tau species accumulates in the cerebrospinal fluid of Alzheimer's disease mouse model and human patients."</b> Author(s):Takeda S,Commins C,DeVos SL,Nobuhara CK,Wegmann S,Roe AD,Costantino I,Fan Z,Nicholls SB,Sherman AE,Trisini Lipsanopoulos AT,Scherzer CR,Carlson GA,Pitstick R,Peskind ER,Raskind MA,Li G,Montine TJ,Frosch MP,Hyman BT PubMed Article URL: <a href="http://dx.doi.org/10.1002/ana.24716">http://dx.doi.org/10.1002/ana.24716</a>
1 Miscellaneous PubMed References	
Species / Dilution	Summary

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MN1000 was used in western blot to report that the di-phenyl-pyrazole anle138b binds to and inhibits tau aggregation in vitro and in vivo

Human / 1:5000

Acta neuropathologica (Nov 2015; 130: 619)

**"Reducing tau aggregates with anle138b delays disease progression in a mouse model of tauopathies."**

Author(s):Wagner J,Krauss S,Shi S,Ryazanov S,Steffen J,Miklitz C,Leonov A,Kleinknecht A,Göricke B,Weishaupt JH,Weckbecker D,Reiner AM,Zinth W,Levin J,Ehninger D,Remy S,Kretzschmar HA,Griesinger C,Giese A,Fuhrmann M  
PubMed Article URL:<http://dx.doi.org/10.1007/s00401-015-1483-3>

### 23 Immunohistochemistry References

Species / Dilution	Summary
	MN1000 was used in immunohistochemistry and western blot to investigate how tau propagation is interrupted due to microglia depletion and exosome synthesis inhibition
Not Applicable / 1:500	Nature neuroscience (Nov 2015; 18: 1584) <b>"Depletion of microglia and inhibition of exosome synthesis halt tau propagation."</b> Author(s):Asai H,Ikezu S,Tsunoda S,Medalla M,Luebke J,Haydar T,Wolozin B,Butovsky O,Kügler S,Ikezu T PubMed Article URL: <a href="http://dx.doi.org/10.1038/nn.4132">http://dx.doi.org/10.1038/nn.4132</a>
	MN1000 was used in immunohistochemistry to investigate the role of tau missplicing in the pathogenesis of Huntington disease
Human / 1:200	Nature medicine (Aug 2014; 20: 881) <b>"Huntington's disease is a four-repeat tauopathy with tau nuclear rods."</b> Author(s):Fernández-Nogales M,Cabrera JR,Santos-Galindo M,Hoozemans JJ,Ferrer I,Rozemuller AJ,Hernández F,Avila J, Lucas JJ PubMed Article URL: <a href="http://dx.doi.org/10.1038/nm.3617">http://dx.doi.org/10.1038/nm.3617</a>
	MN1000 was used in immunohistochemistry and western blot to study the deleterious effect of high homocysteine levels on beta-amyloid and tau pathology and cognitive function in a murine model of Alzheimer's disease
Human / Not Cited	Annals of neurology (Jun 2014; 75: 851) <b>"Homocysteine exacerbates -amyloid pathology, tau pathology, and cognitive deficit in a mouse model of Alzheimer disease with plaques and tangles."</b> Author(s):Li JG,Chu J,Barrero C,Merali S,Praticò D PubMed Article URL: <a href="http://dx.doi.org/10.1002/ana.24145">http://dx.doi.org/10.1002/ana.24145</a>
	MN1000 was used in immunohistochemistry and western blot to study the potential mechanism by which the age-related decline in CaV3.1 T-type calcium channel expression leads to increased production of beta-amyloid
Mouse / 1:1000	Neurobiology of aging (May 2014; 35: 1002) <b>"Age-related downregulation of the CaV3.1 T-type calcium channel as a mediator of amyloid beta production."</b> Author(s):Rice RA,Berchtold NC,Cotman CW,Green KN PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.neurobiolaging.2013.10.090">http://dx.doi.org/10.1016/j.neurobiolaging.2013.10.090</a>
	MN1000 was used in immunohistochemistry and western blot to study dendritic spine loss in a transgenic murine model of Alzheimer's disease and the synergistic effects of Abeta and tau
Human / Not Cited	Neurobiology of disease (Apr 2014; 64: 107) <b>"Synergistic effects of amyloid-beta and wild-type human tau on dendritic spine loss in a floxed double transgenic model of Alzheimer's disease."</b> Author(s):Chabrier MA,Cheng D,Castello NA,Green KN,LaFerla FM PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.nbd.2014.01.007">http://dx.doi.org/10.1016/j.nbd.2014.01.007</a>
	MN1000 was used in immunohistochemistry to study the elevated neuronal and astrocyte expression of RAGE in a murine transgenic model of Alzheimer's disease
Mouse / 1:200	Experimental and molecular medicine (Feb 2014; 46: null) <b>"Increased expression of the receptor for advanced glycation end products in neurons and astrocytes in a triple transgenic mouse model of Alzheimer's disease."</b> Author(s):Choi BR,Cho WH,Kim J,Lee HJ,Chung C,Jeon WK,Han JS PubMed Article URL: <a href="http://dx.doi.org/10.1038/emmm.2013.147">http://dx.doi.org/10.1038/emmm.2013.147</a>

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	<p>MN1000 was used in immunohistochemistry, immunoprecipitation, and western blot to study the beneficial effects of increasing the O-GlcNAcylation of brain proteins on the survival and breathing of aged tau P301L transgenic mice</p>
Mouse / Not Cited	<p>PloS one (Dec 2013; 8: null)  <b>"Increasing brain protein O-GlcNAc-ylation mitigates breathing defects and mortality of Tau.P301L mice."</b>            Author(s):Borghgraef P,Menuet C,Theunis C,Louis JV,Devijver H,Maurin H,Smet-Nocca C,Lippens G,Hilaire G,Gijsen H, Moechars D,Van Leuven F            PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.pone.0084442">http://dx.doi.org/10.1371/journal.pone.0084442</a></p>
	<p>MN1000 was used in immunohistochemistry to study the brain expression of a number of cell adhesion molecules in murine models of Alzheimer's disease</p>
Mouse / Not Cited	<p>PloS one (May 2013; 8: null)  <b>"Tauopathy differentially affects cell adhesion molecules in mouse brain: early down-regulation of nectin-3 in stratum lacunosum moleculare."</b>            Author(s):Maurin H,Seymour CM,Lechat B,Borghgraef P,Devijver H,Jaworski T,Schmidt MV,Kuegler S,Van Leuven F            PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.pone.0063589">http://dx.doi.org/10.1371/journal.pone.0063589</a></p>
	<p>MN1000 was used in immunohistochemistry to study whether the expression of mutant human tau in tau filament-forming mice recapitulates the pathological changes observed in Alzheimer's disease brainstem</p>
Mouse / 1:400	<p>Brain research (Feb 2013; 1497: 73)  <b>"Pattern of tau hyperphosphorylation and neurotransmitter markers in the brainstem of senescent tau filament forming transgenic mice."</b>            Author(s):Morcinek K,Köhler C,Götz J,Schröder H            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.brainres.2012.12.016">http://dx.doi.org/10.1016/j.brainres.2012.12.016</a></p>
	<p>MN1000 was used in immunohistochemistry to study the ability of lysine-specific molecular tweezers to protect against Alzheimer's disease pathology</p>
Mouse / 1:1000	<p>Brain : a journal of neurology (Dec 2012; 135: 3735)  <b>"Protection of primary neurons and mouse brain from Alzheimer's pathology by molecular tweezers."</b>            Author(s):Attar A,Ripoli C,Riccardi E,Maiti P,Li Puma DD,Liu T,Hayes J,Jones MR,Lichti-Kaiser K,Yang F,Gale GD,Tseng CH, Tan M,Xie CW,Straudinger JL,Klärner FG,Schrader T,Frautschy SA,Grassi C,Bitan G            PubMed Article URL:<a href="http://dx.doi.org/10.1093/brain/aws289">http://dx.doi.org/10.1093/brain/aws289</a></p>
	<p>MN1000 was used in immunohistochemistry to study whether tau pathology caused by overexpression of mutant P301L tau in the murine entorhinal-hippocampal network leads to cognitive defects</p>
Human / 1:1000	<p>PloS one (Oct 2012; 7: null)  <b>"Human P301L-mutant tau expression in mouse entorhinal-hippocampal network causes tau aggregation and presynaptic pathology but no cognitive deficits."</b>            Author(s):Harris JA,Koyama A,Maeda S,Ho K,Devidze N,Dubal DB,Yu GQ,Maslah E,Mucke L            PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.pone.0045881">http://dx.doi.org/10.1371/journal.pone.0045881</a></p>
	<p>MN1000 was used in immunohistochemistry to study the role of oxidative stress in Alzheimer's disease pathogenesis and progression</p>
Human / 1:4000	<p>Journal of Alzheimer's disease : JAD (May 2012; 30: 183)  <b>"Effects of the superoxide dismutase/catalase mimetic EUK-207 in a mouse model of Alzheimer's disease: protection against and interruption of progression of amyloid and tau pathology and cognitive decline."</b>            Author(s):Clausen A,Xu X,Bi X,Baudry M            PubMed Article URL:<a href="http://dx.doi.org/10.3233/JAD-2012-111298">http://dx.doi.org/10.3233/JAD-2012-111298</a></p>
	<p>MN1000 was used in immunohistochemistry to investigate the neuropathological changes in dementia pugilistica patients</p>
Human / Not Cited	<p>Journal of neurotrauma (Apr 2012; 29: 1054)  <b>"Frontal cortex neuropathology in dementia pugilistica."</b>            Author(s):Saing T,Dick M,Nelson PT,Kim RC,Cribbs DH,Head E            PubMed Article URL:<a href="http://dx.doi.org/10.1089/neu.2011.1957">http://dx.doi.org/10.1089/neu.2011.1957</a></p>
	<p>MN1000 was used in immunohistochemistry and western blot to study the propagation of tau pathology in a model of early Alzheimer's disease</p>
Mouse / 1:1000	<p>Neuron (Feb 2012; 73: 685)  <b>"Propagation of tau pathology in a model of early Alzheimer's disease."</b>            Author(s):de Calignon A,Polydoro M,Suárez-Calvet M,William C,Adamowicz DH,Kopeikina KJ,Pitstick R,Sahara N,Ashe KH, Carlson GA,Spires-Jones TL,Hyman BT            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.neuron.2011.11.033">http://dx.doi.org/10.1016/j.neuron.2011.11.033</a></p>

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	MN1000 was used in immunohistochemistry to study the ability of the GSKbeta inhibitor morin to reduce tau hyperphosphorylation
Mouse / 1:500	Neurobiology of disease (Nov 2011; 44: 223) <b>"Morin attenuates tau hyperphosphorylation by inhibiting GSK3."</b> Author(s):Gong EJ,Park HR,Kim ME,Piao S,Lee E,Jo DG,Chung HY,Ha NC,Mattson MP,Lee J PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.nbd.2011.07.005">http://dx.doi.org/10.1016/j.nbd.2011.07.005</a>
Human / 1:100	MN1000 was used in immunohistochemistry to investigate the changes of tau pattern in some older patients with dementia  Acta neuropathologica (Aug 2011; 122: 205) <b>"A peculiar constellation of tau pathology defines a subset of dementia in the elderly."</b> Author(s):Kovacs GG,Molnár K,László L,Ströbel T,Botond G,Hönigschnabl S,Reiner-Concin A,Palkovits M,Fischer P,Budka H PubMed Article URL: <a href="http://dx.doi.org/10.1007/s00401-011-0819-x">http://dx.doi.org/10.1007/s00401-011-0819-x</a>
Human / 1 ug/ml	MN1000 was used in immunohistochemistry to investigate the effect of traumatic brain injury on the development of Alzheimer disease pathology  The Journal of neuroscience : the official journal of the Society for Neuroscience (Jun 2011; 31: 9513) <b>"Controlled cortical impact traumatic brain injury in 3xTg-AD mice causes acute intra-axonal amyloid- accumulation and independently accelerates the development of tau abnormalities."</b> Author(s):Tran HT,LaFerla FM,Holtzman DM,Brody DL PubMed Article URL: <a href="http://dx.doi.org/10.1523/JNEUROSCI.0858-11.2011">http://dx.doi.org/10.1523/JNEUROSCI.0858-11.2011</a>
Human / 1:1000	MN1000 was used in immunohistochemistry to investigate the influence of tau oligomer on neuronal morphology and function in mice  Molecular neurodegeneration (Jun 2011; 6: null) <b>"Tau oligomers impair memory and induce synaptic and mitochondrial dysfunction in wild-type mice."</b> Author(s):Lasagna-Reeves CA,Castillo-Carranza DL,Sengupta U,Clos AL,Jackson GR,Kayed R PubMed Article URL: <a href="http://dx.doi.org/10.1186/1750-1326-6-39">http://dx.doi.org/10.1186/1750-1326-6-39</a>
Human / Not Cited	MN1000 was used in immunohistochemistry to detect Tau protein in cerebrospinal fluid  Journal of Alzheimer's disease : JAD (Apr 2011; 24 Suppl 2: 127) <b>"Tau transgenic mice as models for cerebrospinal fluid tau biomarkers."</b> Author(s):Barten DM,Cadelina GW,Hoque N,DeCarr LB,Guss VL,Yang L,Sankaranarayanan S,Wes PD,Flynn ME,Meredith JE,Ahlijanian MK,Albright CF PubMed Article URL: <a href="http://dx.doi.org/10.3233/JAD-2011-110161">http://dx.doi.org/10.3233/JAD-2011-110161</a>
Human / 1:100	MN1000 was used in immunohistochemistry to investigate the dendritic spine loss during the progression of Alzheimer disease in a mouse model  PloS one (Nov 2010; 5: null) <b>"Multiple events lead to dendritic spine loss in triple transgenic Alzheimer's disease mice."</b> Author(s):Bittner T,Fuhrmann M,Burgold S,Ochs SM,Hoffmann N,Mitteregger G,Kretzschmar H,LaFerla FM,Herms J PubMed Article URL: <a href="http://dx.doi.org/10.1371/journal.pone.0015477">http://dx.doi.org/10.1371/journal.pone.0015477</a>
Human / Not Cited	MN1000 was used in immunohistochemistry to develop a FRET-based method to detect pathogenic forms of tau.  Journal of neuroscience methods (Sep 2010; 192: 127) <b>"Spatially pathogenic forms of tau detected in Alzheimer's disease brain tissue by fluorescence lifetime-based Förster resonance energy transfer."</b> Author(s):Larionov S,Wielgat P,Wang Y,Thal DR,Neumann H PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.jneumeth.2010.07.021">http://dx.doi.org/10.1016/j.jneumeth.2010.07.021</a>
Human / 1:200	MN1000 was used in immunohistochemistry to investigate the effect of Abeta(1-42) on the survival of mOP cells in Alzheimer disease mouse model  The American journal of pathology (Sep 2010; 177: 1422) <b>"Early oligodendrocyte/myelin pathology in Alzheimer's disease mice constitutes a novel therapeutic target."</b> Author(s):Desai MK,Mastrangelo MA,Ryan DA,Sudol KL,Narrow WC,Bowers WJ PubMed Article URL: <a href="http://dx.doi.org/10.2353/ajpath.2010.100087">http://dx.doi.org/10.2353/ajpath.2010.100087</a>
Human / 1:400	MN1000 was used in immunohistochemistry to analyze the cholinergic pathology in a tauopathy model  Brain research (Aug 2010; 1347: 111) <b>"Analysis of the cholinergic pathology in the P301L tau transgenic pR5 model of tauopathy."</b> Author(s):Köhler C,Bista P,Götz J,Schröder H PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.brainres.2010.05.076">http://dx.doi.org/10.1016/j.brainres.2010.05.076</a>

## 1 Immunohistochemistry - Free Floating References

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Species / Dilution	Summary
	MN1000 was used in immunohistochemistry - free floating to investigate the effects of tau acetylation at Lys174
Not Applicable / Not Cited	<p>Nature medicine (Oct 2015; 21: 1154)</p> <p><b>"Critical role of acetylation in tau-mediated neurodegeneration and cognitive deficits."</b></p> <p>Author(s):Min SW,Chen X,Tracy TE,Li Y,Zhou Y,Wang C,Shirakawa K,Minami SS,Defensor E,Mok SA,Sohn PD,Schilling B,Cong X,Ellerby L,Gibson BW,Johnson J,Krogan N,Shamloo M,Gestwicki J,Masliah E,Verdin E,Gan L</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/nm.3951">http://dx.doi.org/10.1038/nm.3951</a></p>

## 2 Immunoprecipitation References

Species / Dilution	Summary
	MN1000 was used in immunoprecipitation to study the mechanism by which O-GlcNAcylation prevents pathological aggregation of tau in a murine tauopathy model
Mouse / Not Cited	<p>Neuropharmacology (Apr 2014; 79: 307)</p> <p><b>"Increased O-GlcNAcylation reduces pathological tau without affecting its normal phosphorylation in a mouse model of tauopathy."</b></p> <p>Author(s):Graham DL,Gray AJ,Joyce JA,Yu D,O'Moore J,Carlson GA,Shearman MS,Dellovade TL,Hering H</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.neuropharm.2013.11.025">http://dx.doi.org/10.1016/j.neuropharm.2013.11.025</a></p>
	MN1000 was used in immunoprecipitation to identify and characterize a novel class of GSK3 beta inhibitors
Human / Not Cited	<p>Bioorganic and medicinal chemistry letters (Mar 2011; 21: 1429)</p> <p><b>"6-amino-4-(pyrimidin-4-yl)pyridones: novel glycogen synthase kinase-3 inhibitors."</b></p> <p>Author(s):Coffman K,Brodney M,Cook J,Lanyon L,Pandit J,Sakya S,Schachter J,Tseng-Lovering E,Wessel M</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.bmc.2011.01.017">http://dx.doi.org/10.1016/j.bmc.2011.01.017</a></p>

## 6 ELISA References

Species / Dilution	Summary
	MN1000 was used in ELISA and immunohistochemistry to study the ability of an anti-oligomeric tau monoclonal antibody to specifically reduce oligomeric tau and improve memory and locomotion in a murine Alzheimer's disease model
Mouse / 1:1000	<p>The Journal of neuroscience : the official journal of the Society for Neuroscience (Mar 2014; 34: 4260)</p> <p><b>"Passive immunization with Tau oligomer monoclonal antibody reverses tauopathy phenotypes without affecting hyperphosphorylated neurofibrillary tangles."</b></p> <p>Author(s):Castillo-Carranza DL,Sengupta U,Guerrero-Muñoz MJ,Lasagna-Reeves CA,Gerson JE,Singh G,Estes DM,Barrett AD,Dineley KT,Jackson GR,Kayed R</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1523/JNEUROSCI.3192-13.2014">http://dx.doi.org/10.1523/JNEUROSCI.3192-13.2014</a></p>
	MN1000 was used in ELISA to study the potential utility of CSF tau and phospho181 tau as Alzheimer's disease biomarkers
Human / 2.5 ug/ml	<p>PLoS one (Oct 2013; 8: null)</p> <p><b>"Characterization of novel CSF Tau and ptau biomarkers for Alzheimer's disease."</b></p> <p>Author(s):Meredith JE,Sankaranarayanan S,Guss V,Lanzetti AJ,Berisha F,Neely RJ,Slemmon JR,Portelius E,Zetterberg H,Blennow K,Soares H,Ahlijanian M,Albright CF</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.pone.0076523">http://dx.doi.org/10.1371/journal.pone.0076523</a></p>
	MN1000 was used in ELISA to investigate the characteristics of TTBK1 in the brain of AD patients
Human / Not Cited	<p>Brain pathology (Zurich, Switzerland) (Jul 2013; 23: 378)</p> <p><b>"Tau-tubulin kinase 1 expression, phosphorylation and co-localization with phospho-Ser422 tau in the Alzheimer's disease brain."</b></p> <p>Author(s):Lund H,Cowburn RF,Gustafsson E,Strömberg K,Svensson A,Dahlund L,Malinowsky D,Sunnemark D</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1111/bpa.12001">http://dx.doi.org/10.1111/bpa.12001</a></p>
	MN1000 was used in ELISA to study mechanisms underlying the therapeutic effects of epothilone D in a murine transgenic tau model and the significance for Alzheimer's disease
Mouse / Not Cited	<p>The Journal of neuroscience : the official journal of the Society for Neuroscience (Mar 2012; 32: 3601)</p> <p><b>"The microtubule-stabilizing agent, epothilone D, reduces axonal dysfunction, neurotoxicity, cognitive deficits, and Alzheimer-like pathology in an interventional study with aged tau transgenic mice."</b></p> <p>Author(s):Zhang B,Carroll J,Trojanowski JQ,Yao Y,Iba M,Potuzak JS,Hogan AM,Xie SX,Ballatore C,Smith AB,Lee VM,Brunden KR</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1523/JNEUROSCI.4922-11.2012">http://dx.doi.org/10.1523/JNEUROSCI.4922-11.2012</a></p>

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	MN1000 was used in ELISA to study the sAPP $\beta$ decrease in Alzheimer disease cortex
Human / Not Cited	Journal of neuroscience research (Jun 2011; 89: 822) <b>"Decrease in brain soluble amyloid precursor protein (sAPP) in Alzheimer's disease cortex."</b> Author(s):Wu G,Sankaranarayanan S,Hsieh SH,Simon AJ,Savage MJ PubMed Article URL: <a href="http://dx.doi.org/10.1002/jnr.22618">http://dx.doi.org/10.1002/jnr.22618</a>
	MN1000 was used in ELISA to develop a novel ELISA assay for quantification of tau in cerebrospinal fluid
Human / 2 ug/ml	Neuroscience letters (May 2007; 418: 186) <b>"Tau in cerebrospinal fluid: a sensitive sandwich enzyme-linked immunosorbent assay using tyramide signal amplification."</b> Author(s):Yamamori H,Khatoun S,Grundke-Iqbal I,Blennow K,Ewers M,Hampel H,Iqbal K PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.neulet.2007.03.022">http://dx.doi.org/10.1016/j.neulet.2007.03.022</a>

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