

Phospho-PHF-tau pThr231 Antibody (AT180)

Lot Number: PF202799
Product Data Sheet

Tested Species Reactivity	Published Species Reactivity
Human (Hu)	Chicken (Ck)
Rat (Rt)	Drosophila (Dm)
	Equine (Eq)
	Feline (Fe)
	Hamster (Hm)
	Human (Hu)
	Invertebrate (Inv)
	Mouse (Ms)
	Non-human primate (Nhp)
	Rabbit (Rb)
	Rat (Rt)

Tested Applications	Dilution *
Western Blot (WB)	1:500 - 1:1000
Immunofluorescence (IF)	Assay Dependent
Immunohistochemistry (IHC)	Assay Dependent
Published Applications	Dilution
Western Blot (WB)	See publications
Immunocytochemistry (ICC)	See publications
Immunohistochemistry (IHC)	See publications
Immunoprecipitation (IP)	See publications
ELISA (ELISA)	See publications

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

Details	
Catalog Number:	MN1040
Size:	100 µg
Class:	Monoclonal
Type:	Antibody
Clone:	AT180
Host / Isotype:	Mouse / IgG1, kappa
Immunogen:	Partially purified human PHF-Tau

Form Information	
Form:	Liquid
Concentration:	0.2mg/ml
Purification:	purified
Storage Buffer:	PBS
Preservative:	no preservative
Storage Conditions:	-20° C, Avoid Freeze/Thaw Cycles

Product Specific Information	General Information
MN1040 targets PHF-tau (Thr231) in IF, IHC, and WB applications and shows reactivity with human and rat samples.	Paired helical filament (PHF) is a major component of the neurofibrillary tangles involved in the pathology of Alzheimer’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
The MN1040 immunogen is partially purified human PHF-Tau.	
MN1040 detects PHF-tau (Thr231) which has a predicted molecular weight of approximately 79 kDa.	
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