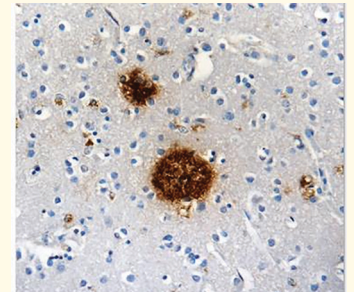


Amyloid Precursor Protein (APP) and Beta Amyloid Antibodies

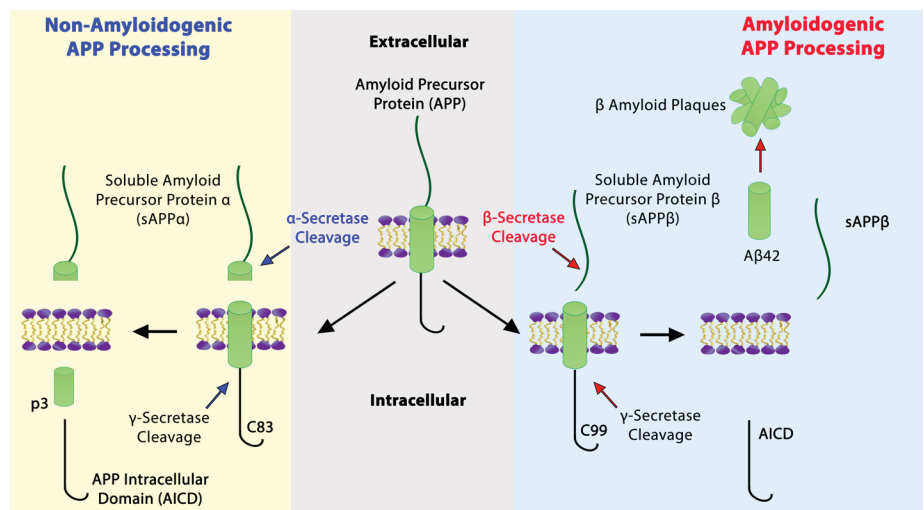
Amyloid Precursor Protein (APP) is a type-I transmembrane protein with enriched expression in neuronal tissues. APP undergoes sequential proteolytic processing through two distinct pathways: 1) the amyloidogenic pathway that generates Amyloid Beta ($A\beta$) and 2) the non-amyloidogenic pathway that precludes the generation of $A\beta$. $A\beta$ is generated when APP is cleaved by β -secretase, followed by cleavage from γ -secretase, while APP cleavage by α -secretase followed by γ -secretase does not generate $A\beta$ peptide. The amyloidogenic pathway is associated with an accumulation of the neurotoxic $A\beta$ peptide and is associated with Alzheimer's, Parkinson's, and other neurological diseases. BioLegend is proud to offer a wide range of high quality, well-characterized products to support research into the mechanism of neurological processes and implications in neurodegenerative diseases.



Staining of $A\beta$ 1-42 (12F4), SIG-39142, on formalin fixed paraffin embedded diseased human brain tissue.

BioLegend offers highly specific reagents for:

- Intracellular, extracellular, and cleavage event specific APP antibodies.
- Epitopes that enable discrimination between highly homologous $A\beta$ peptides.
- Broad epitopes that are universal to $A\beta$ peptides.
- Chemiluminescent and colorimetric ELISA kits for $A\beta$ detection.



APP/Beta Amyloid Antibodies and Reagents

Antibodies to Beta Amyloid Peptide: N-Terminus

Specificity	Cat. No.	Clone	Epitope	Reactivity	Applications	Protein Cross-Reactivity							
						Full Length APP	Beta Amyloid 1-38	Beta Amyloid 1-40	Beta Amyloid 1-42	Beta Amyloid 1-43	sAPPα	sAPPβ	AICD
Beta Amyloid 1-8	SIG-39120	2H4	2-8	Hu	WB, IHC, ELISA	X	X	X	X	X	X		
Beta Amyloid 1-8	SIG-39110	1E11	2-8	Hu	WB, IHC, ELISA	X	X	X	X	X	X		
Beta Amyloid	SIG-39350	20.1	1-10	Hu	WB, IHC, ELISA								
Beta Amyloid	MMS-532R	NAB 228	1-11	Hu	WB, IHC, IP, ELISA	X	X	X	X	X	X		
Beta Amyloid 1-16	SIG-39320	6E10	3-8	Hu	WB, IHC, IP, ELISA	X	X	X	X	X	X		
Low Endotoxin Beta-Amyloid 1-16	SIG-39321	6E10	3-8	Hu	WB, IHC, IP, ELISA	X	X	X	X	X	X		
Beta Amyloid 1-16	SIG-39322	Polyclonal	3-8	Hu	WB, IHC, ELISA	X	X	X	X	X	X		
Beta Amyloid, Rodent Specific	SIG-39155	M3.2	1-16	Hu, Rodent	WB, ICC, IP	X	X	X	X	X	X		
Beta Amyloid, Rodent Specific	SIG-39153	Polyclonal	Unknown	Rodent	WB, IHC, ELISA	X	X	X	X	X	X		
Beta Amyloid 17-24	SIG-39220	4G8	18-23	Hu, Ms	WB, IHC, IP, ELISA	X	X	X	X	X			



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APP/Beta Amyloid Antibodies and Reagents

For the latest product updates and product information, visit: antibody.biolegend.com

Antibodies to Beta Amyloid Peptide: C-Terminus

Antibodies to Beta Amyloid Peptide: C-Terminus						Protein Cross-Reactivity								
Specificity	Cat. No.	Clone	Epitope	Reactivity	Applications	Full Length APP	Beta Amyloid 1-38	Beta Amyloid 1-40	Beta Amyloid 1-42	Beta Amyloid 1-43	sAPPα	sAPPβ	AICD	C-Term Fragment
Beta Amyloid 38	SIG-39160	BA1-13	x-38	Hu	ELISA		X							
Beta Amyloid 1-38, Rabbit mAb	SIG-39162	38182	x-38	Hu	WB, ELISA		X							
Beta Amyloid 1-40	SIG-39140	11A50-B10	x-40	Hu, Ms	WB, IHC, ELISA									
Beta Amyloid 40, Rabbit mAb	SIG-39164	29-6	x-40	Hu, Rodent	ELISA			X						
Beta Amyloid 40, Rabbit mAb	SIG-39166	139-5	x-40	Hu	WB, IHC, ELISA			X						
Beta Amyloid 42	SIG-39168	BA3-9	x-42	Hu, Rodent	ELISA				X					
Beta Amyloid 42, Rabbit mAb	SIG-39169	41285	x-42	Hu	IHC, ELISA				X					
Beta Amyloid 1-42	SIG-39142	12F4	x-42	Hu, Ms	WB, IHC, ELISA				X					
Beta Amyloid 1-43	SIG-39143	9C4	x-43	Hu, Ms	WB, IHC, ELISA					X				

Antibodies to Amyloid Precursor Protein

Antibodies to Amyloid Precursor Protein						Protein Cross-Reactivity								
Specificity	Cat. No.	Clone	Epitope	Reactivity	Applications	Full Length APP	Beta Amyloid 1-38	Beta Amyloid 1-40	Beta Amyloid 1-42	Beta Amyloid 1-43	sAPPα	sAPPβ	AICD	C-Term Fragment
Amyloid Precursor Protein (APP)	SIG-39188	LN27	45-53	Hu	WB, IHC, IP	X					X	X		
Amyloid Precursor Protein (APP)	SIG-39180	1G6	573-593	Hu	WB, IHC, ELISA	X					X	X		
Amyloid Precursor Protein (APP)	SIG-39184	D3B10	61-67	Hu	WB, IHC, ELISA	X					X	X		
sAPPα	SIG-39139	Polyclonal	Unknown	Hu	WB, ELISA						X			
sAPPβ	SIG-39138	Polyclonal	Unknown	Hu, Rodent	WB, ELISA							X		

Antibodies to Gamma Secretase Cleavage Fragments

Antibodies to Gamma Secretase Cleavage Fragments						Protein Cross-Reactivity								
Specificity	Cat. No.	Clone	Epitope	Reactivity	Applications	Full Length APP	Beta Amyloid 1-38	Beta Amyloid 1-40	Beta Amyloid 1-42	Beta Amyloid 1-43	sAPPα	sAPPβ	AICD	C-Term Fragment
AICD (APP Intracellular Domain)	SIG-39148	Polyclonal	Unknown	Hu	IHC , ELISA								X	
APP C-Terminal Fragment	SIG-39150	Polyclonal	Unknown	Hu	ELISA	X							X	X
APP C-Terminal Fragment	SIG-39152	C1/6.1	676-696	Hu, Rodent	WB, ICC, IP, ELISA	X							X	X

BetaMark™ ELISA Kits

BetaMark™ ELISA Kits						Protein Cross-Reactivity								
Description	Cat. No.	Clone	Epitope	Reactivity	Applications	Full Length APP	Beta Amyloid 1-38	Beta Amyloid 1-40	Beta Amyloid 1-42	Beta Amyloid 1-43	sAPPα	sAPPβ	AICD	C-Term Fragment
BetaMark™ Beta-Amyloid x-40 ELISA Kit	SIG-38950	-	-	Hu, Rodent	ELISA			X						
Colorimetric BetaMark™ Beta-Amyloid x-40 ELISA Kit	SIG-38954	-	-	Hu, Rodent	ELISA			X						
BetaMark™ Beta-Amyloid x-42 ELISA Kit	SIG-38952	-	-	Hu, Rodent	ELISA				X					
Colorimetric BetaMark™ Beta-Amyloid x-42 ELISA Kit	SIG-38956	-	-	Hu, Rodent	ELISA				X					

New Antibodies

Specificity	Cat. No.	Clone	Epitope	Reactivity	Applications
Pan Amyloid Fibril, Alkaline Phosphatase	MMS-5037	B10AP	Unknown	Hu, Ms	IHC, ELISA
Pyroglutamate E3 Amyloid Beta	MMS-5280	337.48	3-16	Hu	WB, IHC

Antibodies to Additional Key Targets

Specificity	Cat. No.	Clone	Reactivity	Applications
APO E2, Purified	MMS-5046	3C2	Hu	WB, IHC
APO E2, Purified	MMS-5047	8G3	Hu	WB, ELISA
APO E4, Purified	MMS-5016	5A9	Hu	IHC, ELISA
APO E4, Purified	MMS-5015	5B5	Hu	IHC, ELISA
Apo-E, Purified	SIG-39740	D6E10	Hu	WB, IHC, IP, ELISA
Apo-E, Purified	SIG-39750	E6D7	Hu	WB, IHC, IP, ELISA
Apo-E4, Purified	SIG-39752	5G7	Hu	WB, ELISA
Apo-E4, Purified	SIG-39754	9D11	Hu	WB, ELISA
Insulin Degrading Enzyme (IDE)	MMS-282R	9B12.225	Hu, Rat, Hmr, Monkey	WB, IP, IF
Insulin Degrading Enzyme (IDE)	PRB-282C	Polyclonal	Hu, Rat, Hmr, Monkey	WB, ICC

APP/Beta Amyloid Proteins

Description	Cat. No.	Reactivity	Applications
APP751 Protein	PTN-5273	Hu	WB, ELISA
APP770 Protein	PTN-5279	Hu	WB, ELISA
sAPPbeta Recombinant Protein	SIG-39938	Hu	WB, ELISA

Antibodies to Gamma Secretase Complex Component

Specificity	Cat. No.	Clone	Reactivity	Applications
Aph-1aL/C-Terminal (245-265)	PRB-550P	Polyclonal	Hu	WB, IF
Aph-1aL/S-Loop (92-115)	PRB-551P	Polyclonal	Hu	WB, IF
BACE1 B690 C-Terminal	PRB-617C	Polyclonal	Hu, Ms, Rat	WB, ICC, IP
BACE1 GP45 C-Terminal	PGP-624C	Polyclonal	Hu, Ms, Rat	WB, IP, IF
Nicastrin/C-Term	PRB-365P	Polyclonal	Hu, Ms	WB, ICC, IP
Notch1	MMS-5097	mN1A	Hu, Ms	WB
Notch1	MMS-5169	N253/32	Ms, Rat	WB, IHC
PEN2 C-Terminal	PRB-599C	Polyclonal	Hu	WB, IP
Presenilin 1	SIG-39194	NT1	Hu	WB, IP
Presenilin 1 LOOP	SIG-39198	34-4C3	Hu	WB, IP
PS1/C-Term	PRB-355P	Polyclonal	Hu	WB, ICC, IP
PS1/N-Term	PRB-354P	Polyclonal	Hu	WB, ICC, IP
Presenilin 2	MMS-359S	PS2	Hu, Ms	WB, ICC

Hmr = Hamster
Hu = Human
Ms = Mouse

WB = Western Blot/Immunoblot
IP = Immunoprecipitation
ICC = Immunocytochemistry

IF = Immunofluorescence
IHC = Immunohistochemistry



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