OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AM09000PU-N

Amyloid Precursor Protein (APP) Mouse Monoclonal Antibody [Clone ID: J4H9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	J4H9
Applications:	ELISA, IHC, WB
Recommended Dilution:	**ELISA.** **Western blot** (1/1,000-1/2,000). **Immunohistochemistry on Paraffin Sections** (2.5 µg/ml). This APP antibody was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant Human APP (18-289aa) purified from *E. coli*
Specificity:	The antibody recognizes APP.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein G Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	amyloid beta precursor protein

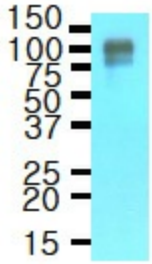
View online »

Database Link: Entrez Gene 351 Human
P05067

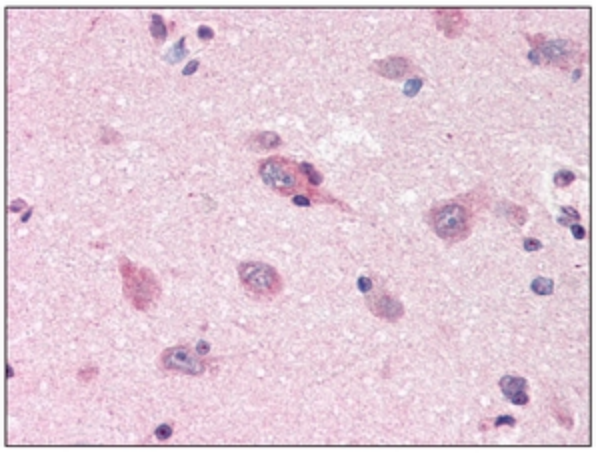
Background: Amyloid precursor protein (APP) is the precursor molecule whose proteolysis generates amyloid beta (Aβ), a 39- to 42- amino acid peptide and this amyloid fibrillar form is the primary component of amyloid plaques found in the brains of Alzheimer's diseases patients. APP is an integral membrane protein that is phosphorylated in the cytoplasmic and extracellular domains. It has been reported that cell-surface APP plays a role in neurite extension of primary cultured hippocampal neurons. The large extracellular domain of APP is also reported to bind extracellular matrix molecules such as heparin, laminin, and collagen, which can mediate cell adhesion and neurite outgrowth. Abnormal regulation of the metabolism of APP may contribute to the deposition of plaques.

Synonyms: Alzheimer disease amyloid protein, Amyloid Precursor Protein, ABPP, APPI, PreA4, Cerebral vascular amyloid peptide, CVAP

Product images:



Western blot analysis on Mouse brain: Tissue lysates of mouse brain (30 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human APP antibody (1/1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Immunohistochemistry: APP antibody staining of Formalin-Fixed, Paraffin-Embedded Human Brain, Cortex.