

Datasheet for ABIN317496
anti-APP antibody (AA 18-289)

3 Images



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Overview

Quantity:	0.1 mL
Target:	APP
Binding Specificity:	AA 18-289
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This APP antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Recombinant human APP (18-289aa) purified from E. coli
Clone:	J4H9
Isotype:	IgG2b
Specificity:	The antibody recognizes APP.
Cross-Reactivity (Details):	Species reactivity (tested):Human.
Characteristics:	Synonyms: Alzheimer disease amyloid protein, Amyloid Precursor Protein, ABPP, APPI, PreA4, Cerebralvascular amyloid peptide, CVAP, Protease nexin-II
Purification:	Protein-G affinity chromatography

Target Details

Target:	APP
Alternative Name:	Amyloid beta A4 Protein / APP (APP Products)
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: ABPP, APPI, Alzheimer disease amyloid protein, Amyloid Precursor Protein, CVAP, Cerebral vascular amyloid peptide, PreA4, Protease nexin-II
Gene ID:	351
UniProt:	P05067
Pathways:	Caspase Cascade in Apoptosis , EGFR Signaling Pathway , Transition Metal Ion Homeostasis , Skeletal Muscle Fiber Development , Toll-Like Receptors Cascades , Feeding Behaviour

Application Details

Application Notes:	ELISA. Western blot (1/500-1/1,000). 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. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

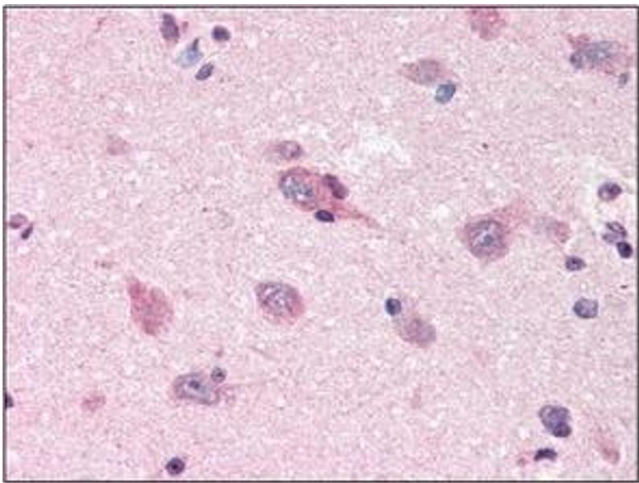
Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	PBS, pH 7.4 containing 0.09 % Sodium Azide as preservative
Preservative:	Sodium azide

Handling

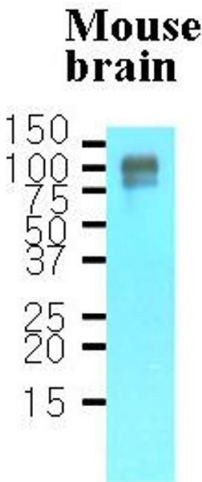
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Expiry Date:	12 months

Images



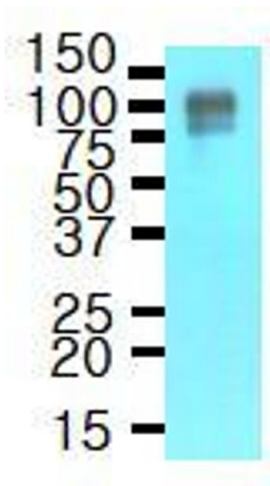
Immunohistochemistry

Image 1.



Western Blotting

Image 2.



Western Blotting

Image 3.