

Datasheet for ABIN499319
anti-APP antibody (N-Term)



[Go to Product page](#)

2 Images 1 Publication

Overview

Quantity:	0.1 mg
Target:	APP
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This APP antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	APP antibody was raised against an 18 amino acid peptide near the amino terminus of human APP.
Isotype:	IgG
Specificity:	This antibody reacts to APP.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	APP
Alternative Name:	Amyloid beta A4 Protein / APP (APP Products)

Target Details

Background:	Accumulation of the amyloid-beta peptide (Abeta) in the cerebral cortex is a critical event in the pathogenesis of Alzheimer's disease. The beta-amyloid protein precursor (APP) is cleaved by one of two beta-secretases (BACE and BACE2), producing a soluble derivative of the protein and a membrane anchored 99-amino acid carboxy-terminal fragment (C99). The C99 fragment serves as substrate for secretase to generate the 4 kDa amyloid-beta peptide (Abeta), which is deposited in the Alzheimer's disease patients' brains. Recently, Death Receptor 6 (DR6) was found to interact with an amino-terminal fragment of the Beta-amyloid protein (N-APP) in neurons, activating a caspase 6-dependent apoptotic event leading to axonal degeneration and pruning during development, suggesting that these two proteins are involved in neural development and may possibly play a role in Alzheimer's disease.Synonyms: ABPP, APPI, Alzheimer disease amyloid protein, Amyloid Precursor Protein, CVAP, Cerebral vascular amyloid peptide, PreA4, Protease nexin-II
Gene ID:	1238255
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: APP antibody can be used for detection of APP at 1 - 2 µg/mL. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

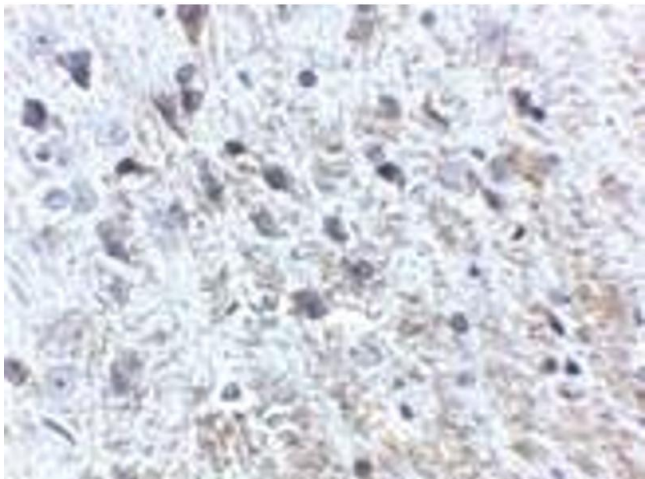
Handling

Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.

Publications

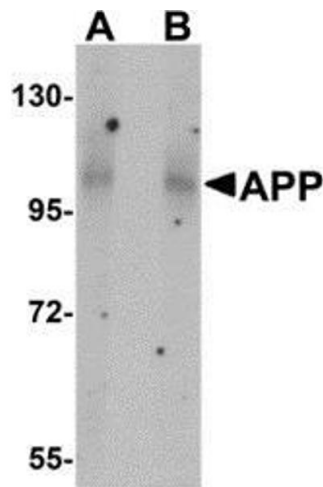
Product cited in: Nikolaev, McLaughlin, OLeary, Tessier-Lavigne: "APP binds DR6 to trigger axon pruning and neuron death via distinct caspases." in: **Nature**, Vol. 457, Issue 7232, pp. 981-9, (2009) ([PubMed](#)).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of APP in mouse brain tissue with APP antibody at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of APP in mouse brain tissue lysate with AP30072PU-N APP antibody at (A) 1 and (B) 2 µg/ml.