

Rabbit APLP1 Polyclonal Antibody | anti-APLP1 antibody

APLP1 Antibody

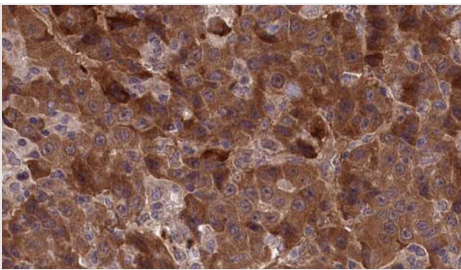
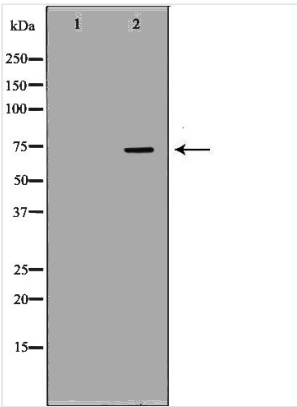
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326796	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

APLP1; Polyclonal Antibody; APLP1 Antibody; AMYLOID BETA A4 PRECURSOR-LIKE PROTEIN 1; AMYLOID PRECURSOR-LIKE PROTEIN; Amyloid-like protein 1 precursor; APLP 1; APLP; APLP-1; Aplp1; APLP1_HUMAN; C30; anti-APLP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	APLP1 antibody detects endogenous levels of total APLP1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	651
Applicable Applications for anti-APLP1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human APLP1
Subcellular Location	Cell Membrane and Cytoplasm. C-terminally processed in the Golgi complex.
Tissue Specificity	Expressed in the cerebral cortex where it is localized to the postsynaptic density (PSD).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog
Similarity	Pig (100%), Bovine (83%), Horse (100%), Sheep (83%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326796 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of Mouse brain, using APLP1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-APLP1 antibody

Description: This gene encodes a member of the highly conserved amyloid precursor protein gene family. The encoded protein is a membrane-associated glycoprotein that is cleaved by secretases in a manner similar to amyloid beta A4 precursor protein cleavage. This cleavage liberates an intracellular cytoplasmic fragment that may act as a transcriptional activator. The encoded protein may also play a role in synaptic maturation during cortical development. Alternatively spliced transcript variants encoding different isoforms have been described.

Function: May play a role in postsynaptic function. The C-terminal gamma-secretase processed fragment, ALID1, activates transcription activation through APBB1 (Fe65) binding (By similarity). Couples to JIP signal transduction through C-terminal binding. May interact with cellular G-protein signaling pathways. Can regulate neurite outgrowth through binding to components of the extracellular matrix such as heparin and collagen I.

Subunit Structure: Monomer and homodimer. Heparin binding promotes homodimerization. Binds, via its C-terminus, to the PID domain of several cytoplasmic proteins, including APBB and APBA family members, MAPK8IP1 and Dab1 (By similarity). Binding to Dab1 inhibits its serine phosphorylation (By similarity). Interacts with CPEB1. Interacts (via NPXY motif) with DAB2 (via PID domain); the interaction is impaired by tyrosine phosphorylation of the NPXY motif. Interacts (via NPXY motif) with DAB1 (By similarity).

Post-translational Modifications: Proteolytically cleaved by caspases during neuronal apoptosis. Cleaved, in vitro, at Asp-620 by caspase-3 (By similarity). N-and O-glycosylated. O-glycosylation with core 1 or possibly core 8 glycans. Glycosylation on Ser-227 is the preferred site to Thr-228.

Similarity: The NPXY sequence motif found in many tyrosine-phosphorylated proteins is required for the specific binding of the PID domain. However, additional amino acids either N-or C-terminal to the NPXY motif are often required for complete interaction. The NPXY site is also involved in clathrin-mediated endocytosis. Belongs to the APP family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	67782338
NCBI GeneID	333
NCBI Accession #	NP_001019978.1
NCBI GenBank Nucleotide #	NM_001024807.2
UniProt Accession #	P51693; O00113; Q96A92
Molecular Weight	Observed: 72 kD Predicted: 73 kDa
NCBI Official Full Name	amyloid-like protein 1 isoform 1
NCBI Official Synonym Full Names	amyloid beta precursor like protein 1
NCBI Official Symbol	APLP1

NCBI Official Synonym Symbols	APLP
NCBI Protein Information	amyloid-like protein 1
UniProt Protein Name	Amyloid-like protein 1
UniProt Gene Name	APLP1
UniProt Synonym Gene Names	APLP; APLP-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/aplp1-antibody-immunohistochemistry-western-blot-elisa/326796>