ARG40373
anti-APLP1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes APLP1
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Bov
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	APLP1
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 101-120 of Human APLP1. (ELQIARVEQATQAIPMERWC)
Conjugation	Un-conjugated
Alternate Names	APLP; Amyloid-like protein 1; APLP-1

Application Instructions

Application table

Application	Dilution
IHC-P	0.5 - 1 µg/ml
WB	0.1 - 0.5 µg/ml

Application Note: IHC-P: Antigen Retrieval: By heat mediation.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: 72 kDa

Properties

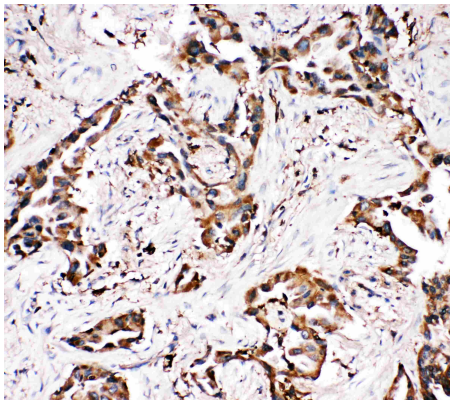
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Thimerosal and 0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

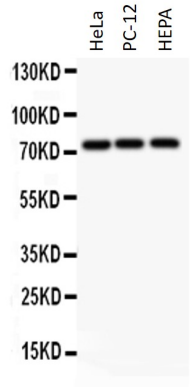
Gene Symbol	APLP1
Gene Full Name	amyloid beta (A4) precursor-like protein 1
Background	This gene encodes a member of the highly conserved amyloid precursor protein gene family. The encoded protein is a membrane-associated glycoprotein that is cleaved by secretases in a manner similar to amyloid beta 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. [provided by RefSeq, Jul 2008]
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. The gamma-CTF peptide, C30, is a potent enhancer of neuronal apoptosis. [UniProt]
Calculated Mw	72 kDa
PTM	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. [UniProt]
Cellular Localization	Cell membrane; Single-pass type I membrane protein. C30: Cytoplasm. Note=C-terminally processed in the Golgi complex. [UniProt]

Images



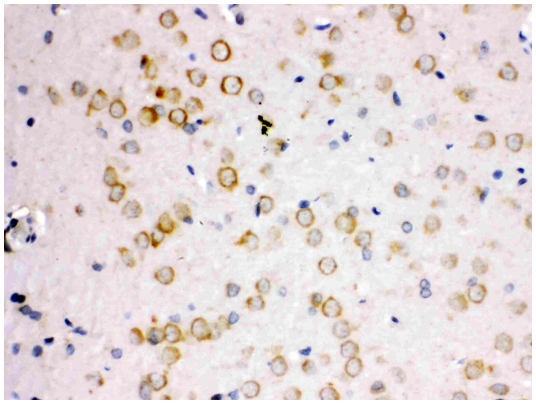
ARG40373 anti-APLP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue stained with ARG40373 anti-APLP1 antibody.



ARG40373 anti-APLP1 antibody WB image

Western blot: 40 µg of HeLa, PC-12 and HEPA whole cell lysates stained with ARG40373 anti-APLP1 antibody at 0.5 µg/ml dilution.



ARG40373 anti-APLP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat brain stained with ARG40373 anti-APLP1 antibody.