

#### APLP1 Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP22338b

#### Specification

# **APLP1 Antibody (C-Term) - Product Information**

Application	WB, FC,E
Primary Accession	<u>P51693</u>
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	72176

#### **APLP1** Antibody (C-Term) - Additional Information

Gene ID 333

**Other Names** Amyloid-like protein 1, APLP, APLP-1, C30, APLP1

Target/Specificity

This APLP1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 505-539 amino acids from the human region of human APLP1.

Dilution WB~~1:2000 FC~~1:25 E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** APLP1 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

## APLP1 Antibody (C-Term) - Protein Information

Name APLP1

**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.

Cellular Location

Cell membrane; Single-pass type I membrane protein

**Tissue Location** 

Expressed in the cerebral cortex where it is localized to the postsynaptic density (PSD)

## **APLP1** Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

#### APLP1 Antibody (C-Term) - Images



All lanes : Anti-APLP1 Antibody (C-Term) at 1:2000 dilution Lane 1: U-251 MG whole cell lysate Lane 2: U-87 MG whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 72 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing U-87 MG cells stained with AP22338b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22338b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit lgG, **DyLight**® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 ( $1\mu g/1x10^{6}$  cells) used under the same conditions. Acquisition of >10, 000 events was performed.

## APLP1 Antibody (C-Term) - Background

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.

# APLP1 Antibody (C-Term) - References

Paliga K.,et al.Eur. J. Biochem. 250:354-363(1997). Lenkkeri U.,et al.Hum. Genet. 102:192-196(1998). Grimwood J.,et al.Nature 428:529-535(2004). Kim T.-W.,et al.Brain Res. Mol. Brain Res. 32:36-44(1995). Bush A.I.,et al.J. Biol. Chem. 269:26618-26621(1994).