

Anti-APLP1 Picoband Antibody
Catalog # ABO12164**Specification**

Anti-APLP1 Picoband Antibody - Product Information

Application	WB, IHC
Primary Accession	P51693
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Amyloid-like protein 1 (APLP1) detection. Tested with WB, IHC-P in Human; Mouse; Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-APLP1 Picoband Antibody - Additional Information

Gene ID 333

Other Names

Amyloid-like protein 1, APLP, APLP-1, C30, APLP1

Calculated MW

72176 MW KDa

Application Details

Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

Cell membrane; Single-pass type I membrane protein.

Tissue Specificity

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

Protein Name

Amyloid-like protein 1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human APLP1 (82-112aa RRCLRDPQVRVLEYCRQMYPELQIARVEQATQ), different from the related mouse sequence by three amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-APLP1 Picoband Antibody - 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

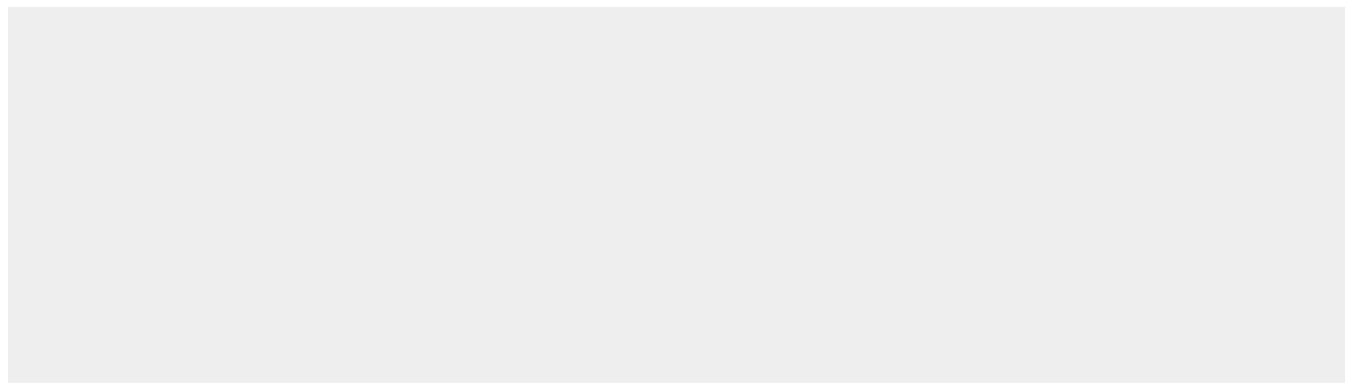
Tissue Location

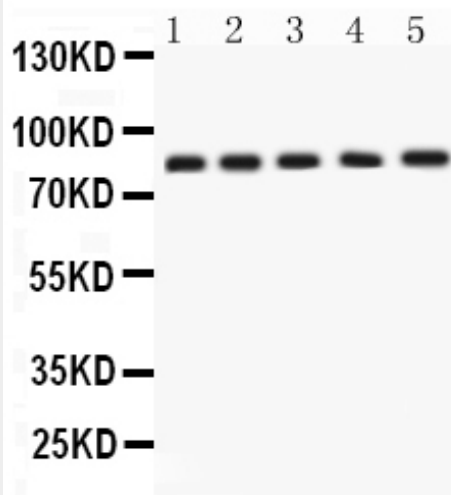
Expressed in the cerebral cortex where it is localized to the postsynaptic density (PSD)

Anti-APLP1 Picoband Antibody - Protocols

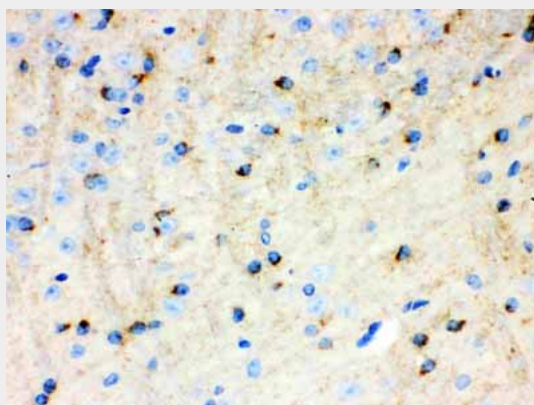
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

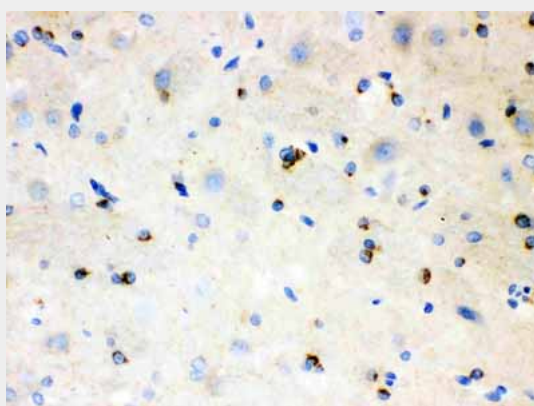
Anti-APLP1 Picoband Antibody - Images



Anti- APLP1 Picoband antibody, ABO12164, Western blotting All lanes: Anti APLP1 (ABO12164) at 0.5ug/ml
Lane 1: Rat Brain Tissue Lysate at 50ug
Lane 2: Rat Testis Tissue Lysate at 50ug
Lane 3: SGC Whole Cell Lysate at 40ug
Lane 4: 22RV1 Whole Cell Lysate at 40ug
Lane 5: MCF-7 Whole Cell Lysate at 40ug
Predicted bind size: 72KD
Observed bind size: 85KD



Anti- APLP1 Picoband antibody, ABO12164, IHC(P) IHC(P): Mouse Brain Tissue



Anti- APLP1 Picoband antibody, ABO12164, IHC(P) IHC(P): Rat Brain Tissue

Anti-APLP1 Picoband Antibody - Background

Amyloid-precursor-like protein 1 (APLP1) is a membrane-associated glycoprotein, whose gene is homologous to the APP gene, which has been shown to be involved in the pathogenesis of Alzheimer's disease. APLP1 is predominantly expressed in brain, particularly in the cerebral cortex

postsynaptic density. The human gene has been mapped to chromosomal region 19q13.1. The gene is 11.8 kb long and contains 17 exons. APLP1 has been considered a candidate gene for CNF. All exon regions of the gene were amplified by the polymerase chain reaction and sequenced from DNA of CNF patients. No differences were observed between CNF patients and controls, suggesting that mutations in APLP1 are not involved in the etiology of CNF.