10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-APLP1 Antibody
Catalog # ABO11403

Specification

Anti-APLP1 Antibody - Product Information

Application	**IHC, WB**
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 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, Human, Rat, Mouse, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, 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 Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the N-terminus of human APLP1(101-120aa ELQIARVEQATQAIPMERWC), different from the related mouse and rat sequences by two amino acids.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, 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 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 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 Cytomety
- Cell Culture

Anti-APLP1 Antibody - Images

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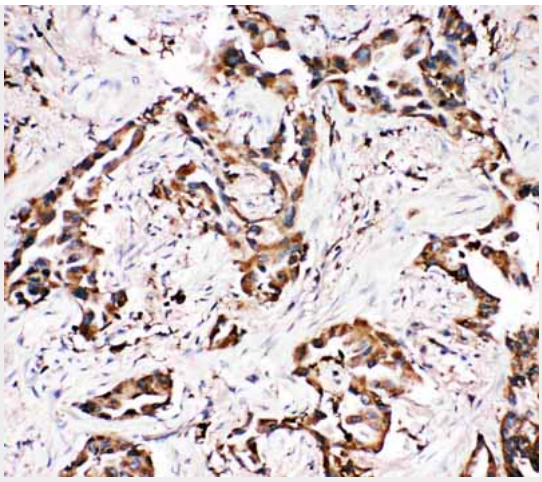
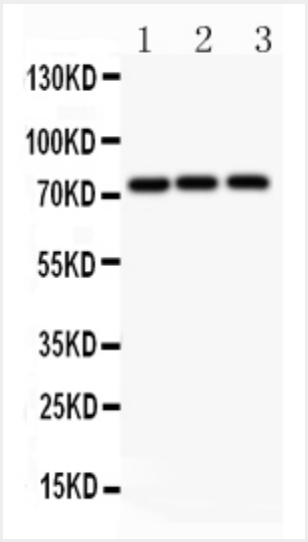
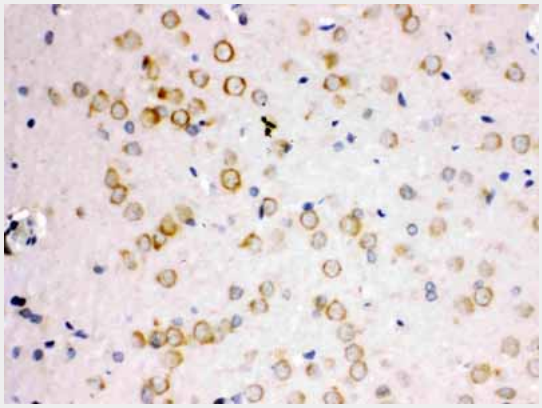


Anti-APLP1 antibody, ABO11403, IHC(P)IHC(P): Human Lung Cancer Tissue



Anti-APLP1 antibody, ABO11403, Western blottingAll lanes: Anti APLP1 (ABO11403) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: PC-12 Whole Cell Lysate at 40ugLane 3: HEPA Whole Cell Lysate at 40ugPredicted bind size: 72KDObserved bind size: 72KD



Anti-APLP1 antibody, ABO11403, IHC(P)IHC(P): Rat Brain Tissue

Anti-APLP1 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.