

Anti-APLP2 Antibody
Catalog # ABO10969**Specification**

Anti-APLP2 Antibody - Product Information

Application	WB
Primary Accession	Q06481
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Amyloid-like protein 2(APLP2) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

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

Anti-APLP2 Antibody - Additional Information

Gene ID 334

Other Names

Amyloid-like protein 2, APLP-2, APPH, Amyloid protein homolog, CDEI box-binding protein, CDEBP, APLP2, APPL2

Calculated MW

86956 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Cell membrane ; Single-pass type I membrane protein . Nucleus .

Tissue Specificity

Expressed in placenta, brain, heart, lung, liver, kidney and endothelial tissues.

Protein Name

Amyloid-like protein 2(APLP-2)

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 C-terminus of human APLP2(639-656aa EEKVINSKNKVDENMVID), different from the related rat and mouse sequences by one amino acid.

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.

Sequence Similarities

Belongs to the APP family.

Anti-APLP2 Antibody - Protein Information

Name APLP2 ([HGNC:598](#))

Function

May play a role in the regulation of hemostasis. The soluble form may have inhibitory properties towards coagulation factors. May interact with cellular G-protein signaling pathways. May bind to the DNA 5'-GTCACATG-3' (CDEI box). Inhibits trypsin, chymotrypsin, plasmin, factor XIA and plasma and glandular kallikrein. Modulates the Cu/Zn nitric oxide-catalyzed autodegradation of GPC1 heparan sulfate side chains in fibroblasts (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Nucleus

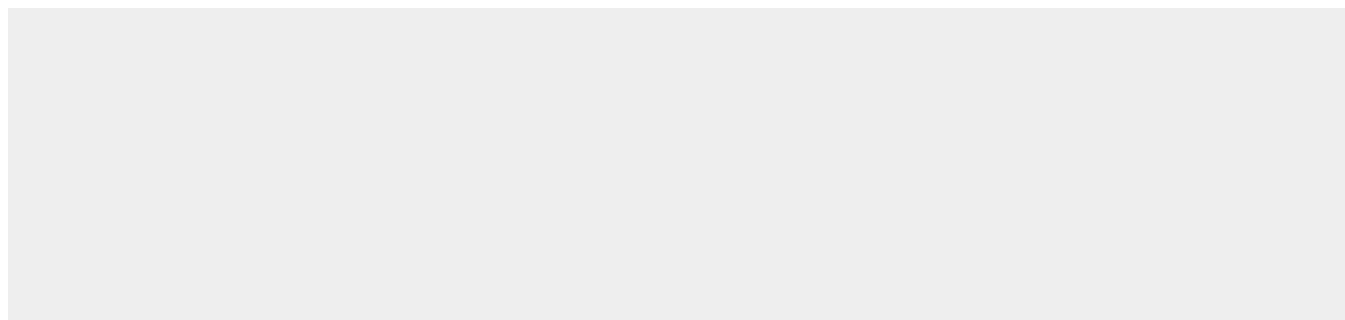
Tissue Location

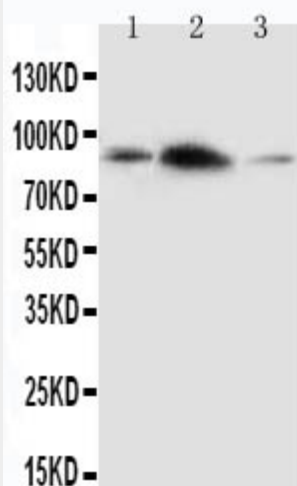
Expressed in placenta, brain, heart, lung, liver, kidney and endothelial tissues

Anti-APLP2 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-APLP2 Antibody - Images



Anti-APLP2 antibody, ABO10969, Western blotting
Lane 1: Rat Brain Tissue Lysate
Lane 2: Rat Heart Tissue Lysate
Lane 3: SMMC Cell Lysate

Anti-APLP2 Antibody - Background

APLP2 (Amyloid beta(A4) precursor-like protein 2), also known as CDEBP or SPERM MEMBRANE PROTEIN, is a protein that in humans is encoded by the APLP2 gene. The APLP2 gene is mapped on 11q24.3. The human amyloid precursor-like protein APLP2 is a highly conserved homolog of a sequence-specific DNA-binding mouse protein with an important function in the cell cycle. APLP2 along with APLP1 are important modulators of glucose and insulin homeostasis. APLP2 associates with antigen presentation molecules like MHC class I molecules and regulates their surface expression by enhancing endocytosis.