

Anti-APLP2 Antibody

Catalog # ABO10969

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.

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
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.
Source	Eukaryota
Protein Name	Amyloid-like protein 2(APLP-2)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
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 r° Constitution, at 4° C for one month. It° Can also

Sequence Similarities

be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Belongs to the APP family.

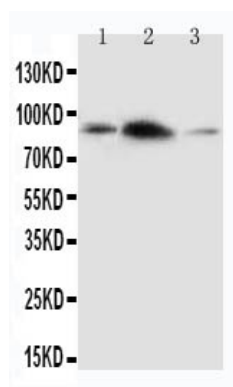
Protein Information

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

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.

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.