



APLP-2 Polyclonal Antibody

Catalog No	YP-Ab-12686
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	APLP2
Immunogen	The antiserum was produced against synthesized peptide derived from human APLP2. AA range:241-290
Specificity	APLP-2 Polyclonal Antibody detects endogenous levels of APLP-2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	APLP-2;Amyloid-like protein 2;Amyloid like protein 2;Amyloid beta precursor like protein 2;Amyloid beta;APLP2;APPL2;APPH;Amyloid protein homolog;CDEI box-binding protein;CDEBP
Observed Band	87kD
Calculated Molecular Weight	87kD
Cell Pathway	Cell membrane ; Single-pass type I membrane protein . Nucleus .
Tissue Specificity	Expressed in placenta, brain, heart, lung, liver, kidney and endothelial tissues.
Function	alternative products:Additional isoforms seem to exist,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.,PTM:The BPTI/Kunitz inhibitor domain is O-glycosylated.,similarity:Belongs to the APP family.,similarity:Contains 1 BPTI/Kunitz inhibitor domain.,subunit:Interacts with CPEB1.,tissue specificity:In placenta, brain, heart, lung, liver, kidney and endothelial tissues.,

Background

This gene encodes amyloid precursor- like protein 2 (APLP2), which is a member of the APP (amyloid precursor protein) family including APP, APLP1 and APLP2. This protein is ubiquitously expressed. It contains heparin-, copper- and zinc- binding domains at the N-terminus, BPTI/Kunitz inhibitor and E2 domains in the middle region, and transmembrane and intracellular domains at the C-terminus. This protein interacts with major histocompatibility complex (MHC) class I molecules. The synergy of this protein and the APP is required to mediate neuromuscular transmission, spatial learning and synaptic plasticity. This protein has been implicated in the pathogenesis of Alzheimer's disease. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011],

matters needing attention

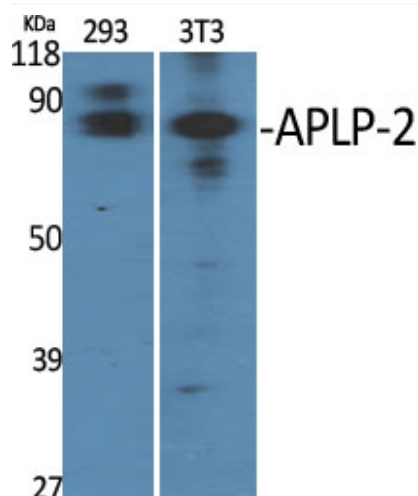
Avoid repeated freezing and thawing!

Usage suggestions

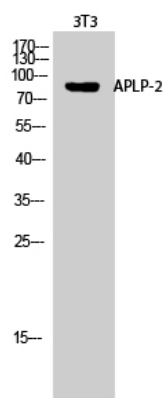
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



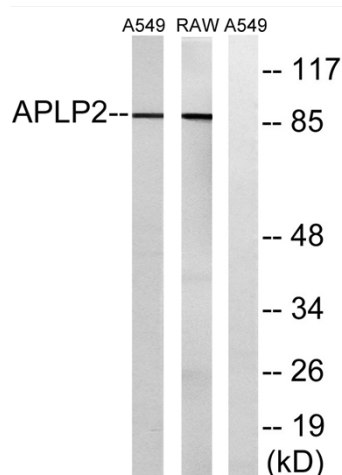
Products Images



Western Blot analysis of various cells using APLP-2 Polyclonal Antibody diluted at 1:2000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Western Blot analysis of 3T3 cells using APLP-2 Polyclonal Antibody diluted at 1:2000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Western blot analysis of lysates from RAW264.7 and A549 cells, using APLP2 Antibody. The lane on the right is blocked with the synthesized peptide.