



LPP1 mouse mAb

Catalog No	YP-mAb-11795
Isotype	IgG
Reactivity	Human; Mouse;Rat
Applications	WB
Gene Name	PPAP2A LPP1
Protein Name	LPP1
Immunogen	Synthesized peptide derived from human LPP1 AA range: 219-269
Specificity	This antibody detects endogenous levels of LPP1 at Human/Mouse/Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, mouse,IgG
Purification	The antibody was affinity-purified from mouse serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Calculated Molecular Weight	31kD
Observed Band	
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Apical cell membrane ; Multi-pass membrane protein . Membrane raft ; Multi-pass membrane protein . Membrane, caveola ; Multi-pass membrane protein .
Tissue Specificity	Widely expressed with highest expression found in prostate (PubMed:9305923). Found to be down-regulated in colon adenocarcinomas (PubMed:9570154). ; [Isoform 1]: Predominant in kidney, lung, placenta and liver. ; [Isoform 2]: Predominant in heart and pancreas.
Function	alternative products:Additional isoforms seem to exist,catalytic activity:A 3-sn-phosphatidate + H(2)O = a 1,2-diacyl-sn-glycerol + phosphate.,caution:PubMed:9305923 states that this phosphatase does not hydrolyze sphingosine 1-phosphate while PubMed:9705349 states that it does.,enzyme regulation:Inhibited by sphingosine, zinc ions and propanolol. Not inhibited by N-ethylmaleimide treatment.,function:Broad-specificity phosphohydrolase that dephosphorylates exogenous bioactive glycerolipids and sphingolipids. Catalyzes the conversion of phosphatidic acid (PA) to diacylglycerol (DG). Pivotal regulator of lysophosphatidic acid (LPA) signaling in the cardiovascular system. Major enzyme responsible of dephosphorylating LPA in platelets, which terminates signaling actions of LPA. May control circulating, and possibly also regulate localized, LPA levels resulting from platelet activation.



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Background

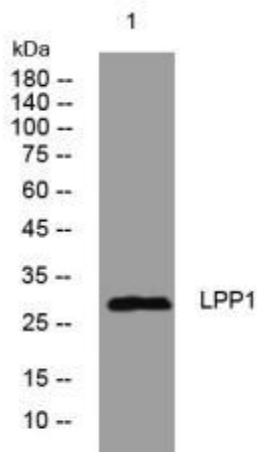
The protein encoded by this gene is a member of the phosphatidic acid phosphatase (PAP) family. PAPs convert phosphatidic acid to diacylglycerol, and function in synthesis of glycerolipids and in phospholipase D-mediated signal transduction. This enzyme is an integral membrane glycoprotein that plays a role in the hydrolysis and uptake of lipids from extracellular space. Alternate splicing results in multiple transcript variants of this gene. [provided by RefSeq, May 2013],

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 lysates from MDA-MB cells, primary antibody was diluted at 1:1000, 4°over night