



LPPR4 Polyclonal Antibody

Catalog No	YP-Ab-06892
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB;ELISA
Gene Name	LPPR4 KIAA0455 PRG1
Immunogen	Synthesized peptide derived from part region of human protein.AA55-80
Specificity	LPPR4 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, 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 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Brain-specific phosphatidic acid phosphatase-like protein 1;Inactive 2-lysophosphatidate phosphatase PLPPR4;KIAA0455;Lipid phosphate phosphatase-related protein type 4;LPR4;LPPR4;LPPR4 KIAA0455 PRG1;Lipid phosphate phosphatase-related protein type 4 (EC 3.1.3.4) (Brain-specific phosphatidic acid phosphatase-like protein 1) (Plasticity-related gene 1 protein) (PRG-1)
Observed Band	83-100 kDa
Calculated Molecular Weight	763 aa, 83 kDa
Cell Pathway	Cell junction, synapse, postsynaptic density membrane ; Multi-pass membrane protein .
Tissue Specificity	Expressed by glutamatergic neurons (at protein level).
Function	catalytic activity:A 3-sn-phosphatidate + H(2)O = a 1,2-diacyl-sn-glycerol + phosphate.,function:Hydrolyzes lysophosphatidic acid (LPA). Facilitates axonal outgrowth during development and regenerative sprouting. In the outgrowing axons acts as an ecto-enzyme and attenuates phospholipid-induced axon collapse in neurons and facilitates outgrowth in the hippocampus., similarity:Belongs to the PA-phosphatase related phosphoesterase family.,tissue specificity:Specifically expressed in neurons.,

Background

The protein encoded by this gene belongs to the lipid phosphate phosphatase (LPP) family. LPPs catalyze the dephosphorylation of a number of bioactive lipid mediators that regulate a variety of cell functions. This protein is specifically expressed in neurons. It is located in the membranes of outgrowing axons and has been shown to be important for axonal outgrowth during development and regenerative sprouting. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009],

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