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LPPR4 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP4973b

Specification

LPPR4 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession	Q7Z2D5
Other Accession	NP_055654

LPPR4 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 9890

Other Names
Lipid phosphate phosphatase-related protein type 4, Brain-specific phosphatidic acid phosphatase-like protein 1, Plasticity-related gene 1 protein, PRG-1, LPPR4, KIAA0455, PRG1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

LPPR4 Antibody (C-term) Blocking Peptide - Protein Information

Name PLPPR4 (HGNC:23496)

Function
Postsynaptic density membrane protein that indirectly regulates glutamatergic synaptic transmission through lysophosphatidic acid (LPA)-mediated signaling pathways. Binds lysophosphatidic acid (LPA) and mediates its internalization into cells. Could act as receptor or a transporter of this lipid at the post-synaptic membrane (By similarity). Modulates lysophosphatidic acid (LPA) activity in neuron axonal outgrowth during development by attenuating phospholipid-induced axon collapse (By similarity).

Cellular Location
Postsynaptic density membrane; Multi-pass membrane protein

Tissue Location
Expressed by glutamatergic neurons (at protein level).

LPPR4 Antibody (C-term) Blocking Peptide - Protocols

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Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

LPPR4 Antibody (C-term) Blocking Peptide - Images

LPPR4 Antibody (C-term) Blocking Peptide - Background

LPPR4 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.

LPPR4 Antibody (C-term) Blocking Peptide - References

Trimbuch, T., et al. Cell 138(6):1222-1235(2009)Vasan, R.S., et al. JAMA 302(2):168-178(2009)Brauer, A.U., et al. Nat. Neurosci. 6(6):572-578(2003)