

PPFIA2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17576c

Specification

PPFIA2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession [O75334](#)

PPFIA2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 8499

Other Names

Liprin-alpha-2, Protein tyrosine phosphatase receptor type f polypeptide-interacting protein alpha-2, PTPRF-interacting protein alpha-2, PPFIA2

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.

PPFIA2 Antibody (Center) Blocking Peptide - Protein Information

Name PPFIA2

Function

Alters PTPRF cellular localization and induces PTPRF clustering. May regulate the disassembly of focal adhesions. May localize receptor-like tyrosine phosphatases type 2A at specific sites on the plasma membrane, possibly regulating their interaction with the extracellular environment and their association with substrates. In neuronal cells, is a scaffolding protein in the dendritic spines which acts as immobile postsynaptic post able to recruit KIF1A-driven dense core vesicles to dendritic spines (PubMed:30021165).

Cellular Location

Cytoplasm. Cell surface. Cell projection, dendritic spine. Note=Colocalizes with PTPRF at the cell surface

Tissue Location

Expressed only in brain.

PPFIA2 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PPFIA2 Antibody (Center) Blocking Peptide - Images

PPFIA2 Antibody (Center) Blocking Peptide - Background

The protein encoded by this gene is a member of the LARprotein-tyrosine phosphatase-interacting protein (liprin) family. Liprins interact with members of LAR family of transmembrane protein tyrosine phosphatases, which are known to be important for axon guidance and mammary gland development. It has been proposed that liprins are multivalent proteins that form complex structures and act as scaffolds for the recruitment and anchoring of LAR family of tyrosine phosphatases. This protein is most closely related to PPFIA1, a liprin family member known to interact with the protein phosphatase LAR. The expression of this gene is found to be downregulated by androgens in a prostate cancer cell line.

PPFIA2 Antibody (Center) Blocking Peptide - References

Rose, J. Phd, et al. Mol. Med. (2010) In press : Ko, J., et al. J. Biol. Chem. 278(43):42377-42385(2003) Ko, J., et al. J. Neurosci. 23(5):1667-1677(2003) Fujinami, K., et al. Int. J. Mol. Med. 10(2):173-176(2002) Wyszynski, M., et al. Neuron 34(1):39-52(2002)