

PPFIA2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17576c

Product Information

Application	WB, E
Primary Accession	O75334
Other Accession	Q8BSS9 , NP_003616.2
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37278
Calculated MW	143291
Antigen Region	571-599

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
Target/Specificity	This PPFIA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 571-599 amino acids from the Central region of human PPFIA2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PPFIA2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

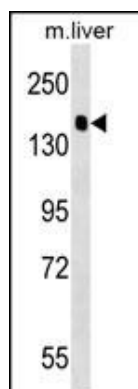
Background

The protein encoded by this gene is a member of the LAR protein-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.

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)

Images



PPFIA2 Antibody (Center) (Cat. #AP17576c) western blot analysis in mouse liver tissue lysates (35ug/lane). This demonstrates the PPFIA2 antibody detected the PPFIA2 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.