

PPFIA3 Antibody

Catalog # ASC11723

Product Information

Application	WB, E
Primary Accession	O75145
Other Accession	NP_003651 , 32189362
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	133496
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	PPFIA3 antibody can be used for detection of PPFIA3 by Western blot at 1 - 2 μ g/ml.

Additional Information

Gene ID	8541
Other Names	Liprin-alpha-3, Protein tyrosine phosphatase receptor type f polypeptide-interacting protein alpha-3, PTPRF-interacting protein alpha-3, PPFIA3, KIAA0654
Target/Specificity	PPFIA3; PPFIA3 antibody is human, mouse, and rat reactive.
Reconstitution & Storage	PPFIA3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	PPFIA3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PPFIA3
Synonyms	KIAA0654
Function	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.
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:Q91Z79}. Cytoplasmic vesicle, secretory vesicle, acrosome. Note=Also detected in epididymosome {ECO:0000250 UniProtKB:Q91Z79}

Tissue Location

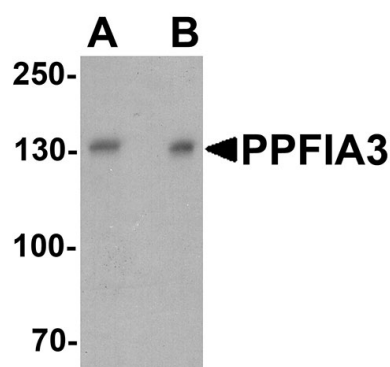
Predominantly expressed in brain (PubMed:9624153). Also detected in sperm (at protein level) (PubMed:23124857)

Background

The PPFIA3 protein is a member of the LAR protein-tyrosine phosphatase-interacting protein (liprin) family, a family of transmembrane protein tyrosine phosphatases known to be important for axon guidance and mammary gland development (1). Similar to the other liprin family members, PPFIA3 can interact with ERC2, a member of the ELKS-Rab6-interacting protein-CAST family of proteins at the presynaptic termini, suggesting that these proteins may play a role in the molecular organization of presynaptic zones (2).

References

Serra-Pages C, Medley QG, Tang M, et al. Liprins, a family of LAR transmembrane protein-tyrosine phosphatase-interacting proteins. *J. Biol. Chem.* 1998; 273:15611-20.
Ko J, Na M, Kim S, et al. Interaction of the ERC family of RIM-binding proteins with the liprin-alpha family of multidomain proteins. *J. Biol. Chem.* 2003; 278:42377-85.

Images

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