

Liprin alpha 2 Rabbit pAb

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Catalog # AP94099

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O75334
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	143291
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Liprin alpha 2
Epitope Specificity	531-630/1257
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Cell surface. Colocalizes with PTPRF at the cell surface.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 has been shown to bind the calcium/calmodulin-dependent serine protein kinase (MAGUK family) protein (also known as CASK) and proposed to regulate higher-order brain functions in mammals. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

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
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

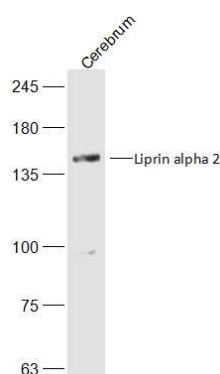
Protein Information

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.

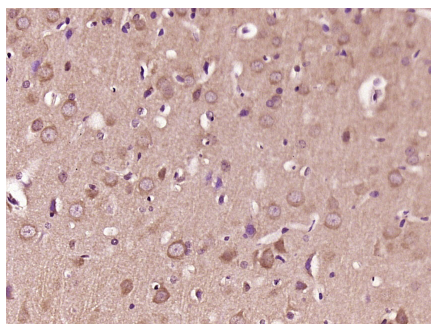
Background

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Images



Sample:
Cerebrum (Mouse) Lysate at 40 ug
Primary: Anti-Liprin alpha 2 (AP94099) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 143 kD
Observed band size: 143 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain);
Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (LIPA2) Polyclonal Antibody, Unconjugated (AP94099) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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