

# Liprin alpha 1 Rabbit pAb

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Catalog # AP54512

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, E
<b>Primary Accession</b>	<a href="#">Q13136</a>
<b>Predicted</b>	Human, Mouse, Rat, Dog, Pig, Horse, Sheep
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	135779
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human Liprin alpha 1
<b>Epitope Specificity</b>	141-190/1202
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Cytoplasm. Note=Colocalizes with PTPRF at the ends of focal adhesions most proximal to the cell nucleus.
<b>SIMILARITY</b>	Belongs to the liprin family. Liprin-alpha subfamily. Contains 3 SAM (sterile alpha motif) domains.
<b>SUBUNIT</b>	Forms homodimers and heterodimers with liprins-alpha and liprins-beta. Interacts with the second PTPase domain of PTPRD, PTPRF and PTPRS. Interacts with GIT1, KIF1A and GRIP1
<b>Post-translational modifications</b>	Phosphorylated upon DNA damage, probably by ATM or ATR.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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. This protein binds to the intracellular membrane-distal phosphatase domain of tyrosine phosphatase LAR, and appears to localize LAR to cell focal adhesions. This interaction may regulate the disassembly of focal adhesion and thus help orchestrate cell-matrix interactions. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008].

## Additional Information

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<b>Gene ID</b>	8500
<b>Other Names</b>	Liprin-alpha-1, LAR-interacting protein 1, LIP-1, Protein tyrosine phosphatase receptor type f polypeptide-interacting protein alpha-1, PTPRF-interacting protein alpha-1, PPFIA1, LIP1

<b>Target/Specificity</b>	Ubiquitous.
<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
<b>Storage</b>	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

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<b>Name</b>	PPFIA1
<b>Synonyms</b>	LIP1
<b>Function</b>	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.
<b>Cellular Location</b>	Cytoplasm, cell cortex. Cytoplasm Note=Colocalizes with PTPRF near focal adhesions
<b>Tissue Location</b>	Ubiquitous.

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