

# ProSAPiP1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP54423

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, ICC, E
<b>Primary Accession</b>	<a href="#">O60299</a>
<b>Reactivity</b>	Rat, Pig, Dog, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	71791
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human ProSAPiP1
<b>Epitope Specificity</b>	151-250/673
<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>	Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. Cytoplasm > cytoskeleton. Detected at synapses, postsynaptic density, synaptic spines and dendrites.
<b>SIMILARITY</b>	Belongs to the PROSAPIP1 family.
<b>SUBUNIT</b>	Interacts (via C-terminus) with SHANK3 (via PDZ domain). Interacts (via coiled coil) with SIPA1L1. Can form homooligomers (By similarity).
<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 ProSAP family of proteins contain many protein-protein interaction domains and serve as scaffolding mediators within the post-synaptic density (PSD) of excitatory brain synapses. The PSD is an electron-dense structure underneath the post-synaptic plasma membrane of excitatory synapses that anchors and clusters glutamate receptors opposite to the pre-synaptic neurotransmitter release site. Shank proteins contain PDZ modular domains that coordinate the synaptic localization of ion channels, receptors, signaling enzymes, and cell adhesion molecules. The PDZ domain mediates protein-protein interactions via the recognition of a conserved sequence motif at the C-terminus of their target protein(s). ProSAPiP1 (proline rich synapse associated protein interacting protein 1) is a 673 amino acid protein that interacts with the PDZ domain of Shank 3. ProSAPiP1 expression is brain-specific with highest expression within the cerebellum, hippocampus and cerebral cortex.

## Additional Information

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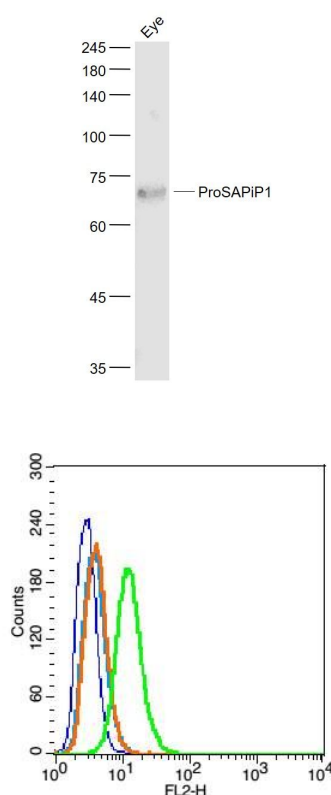
<b>Gene ID</b>	9762
<b>Other Names</b>	Leucine zipper putative tumor suppressor 3, ProSAP-interacting protein 1, LZTS3 ( <a href="#">HGNC:30139</a> )

<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,Flow-Cyt=1 µg/Test,ELISA=1:5000-10000
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<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

<b>Name</b>	LZTS3 ( <a href="#">HGNC:30139</a> )
<b>Function</b>	May be involved in promoting the maturation of dendritic spines, probably via regulating SIPA1L1 levels at the postsynaptic density of synapses.
<b>Cellular Location</b>	Synapse {ECO:0000250 UniProtKB:Q8K1Q4}. Postsynaptic density {ECO:0000250 UniProtKB:Q8K1Q4}. Cell projection, dendritic spine {ECO:0000250 UniProtKB:Q8K1Q4}. Cell projection, dendrite {ECO:0000250 UniProtKB:Q8K1Q4}. Cytoplasm, cytoskeleton {ECO:0000250 UniProtKB:Q8K1Q4}. Note=Rather found at excitatory than inhibitory synapses. {ECO:0000250 UniProtKB:Q8K1Q4}

## Images



### Sample:

Eye (Mouse) Lysate at 40 ug  
 Primary: Anti- ProSAPiP1 (AP54423) at 1/1000 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 72 kD  
 Observed band size: 72 kD

Blank control: RSC96(blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice..

Isotype Control Antibody: Rabbit IgG(orange) ;  
 Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA ;  
 Primary Antibody Dilution: 1 µg in 100 µL1X PBS containing 0.5% BSA(green).

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