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ProSAPiP1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54423

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	O60299
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	71791
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ProSAPiP1
Epitope Specificity	151-250/673
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	Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. Cytoplasm > cytoskeleton. Detected at synapses, postsynaptic density, synaptic spines and dendrites.
SIMILARITY	Belongs to the PROSAPIP1 family.
SUBUNIT	Interacts (via C-terminus) with SHANK3 (via PDZ domain). Interacts (via coiled coil) with SIPA1L1. Can form homooligomers (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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

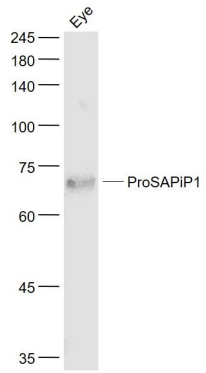
Gene ID	9762
Other Names	Leucine zipper putative tumor suppressor 3, ProSAP-interacting protein 1, LZTS3 (HGNC:30139)

Dilution	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 □g/Test,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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.

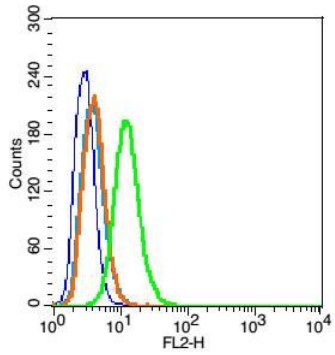
Protein Information

Name	LZTS3 (HGNC:30139)
Function	May be involved in promoting the maturation of dendritic spines, probably via regulating SIPA1L1 levels at the postsynaptic density of synapses.
Cellular Location	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).