10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Prosapip1 Antibody

Catalog # ASC10979

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	O60299
Other Accession	NP_055546, 7662176
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	71791
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Prosapip1 antibody can be used for detection of Prosapip1 by Western blot at 1 μg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μg/mL. For immunofluorescence start at 20 μg/mL.

Additional Information

Gene ID	9762
Other Names	Leucine zipper putative tumor suppressor 3, ProSAP-interacting protein 1, ProSAPiP1, LZTS3, KIAA0552, PROSAPIP1
Target/Specificity	ProSAPiP1;
Reconstitution & Storage	Prosapip1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	Prosapip1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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}

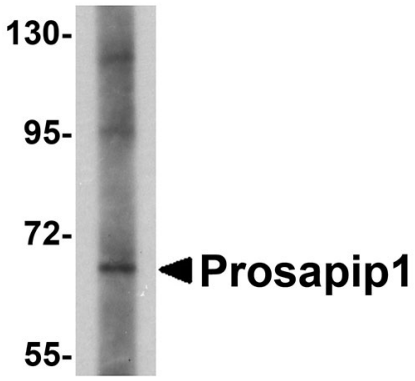
Background

Prosapip1 Antibody: Prosapip1 is a binding partner of the postsynaptic density (PSD) protein ProSAP2/Shank3, a major scaffolding protein in excitatory brain synapses. Prosapip1 is thought to bind ProSAP2/Shank3 through ProSAP2/Shank3's PDZ domain and link it in turn to the Spine-associated Rap-Gap (SPAR). Prosapip1 shares significant homology with another PSD protein, PSD-Zip70, with both coding for a Fez1 domain that can be found in a total of four related protein, forming a novel family of scaffolding molecules termed 'Fezzins'. Recent studies show that Prosapip1 can be found in endocrine cells in which it is localized primarily in the hormone-storing compartment of these cells, suggesting that Prosapip1 may have other functions in non-neuronal cells.

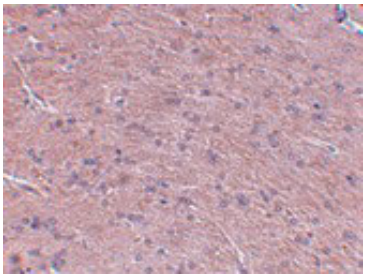
References

Wendholt D, Spilker C, Schmitt A, et al. ProSAP-interacting protein 1 (ProSAPiP1), a novel protein of the postsynaptic density that links the spine-associated Rap-Gap (SPAR) to the scaffolding protein proSAP2/Shank3. J. Biol. Chem.2006; 281:13805-16.
Redecker P, Bockmann J, and Bockers TM. Secretory granules of hypophyseal and pancreatic endocrine cells contain proteins of the neuronal postsynaptic density. Cell Tissue Res.2007; 328:49-55.

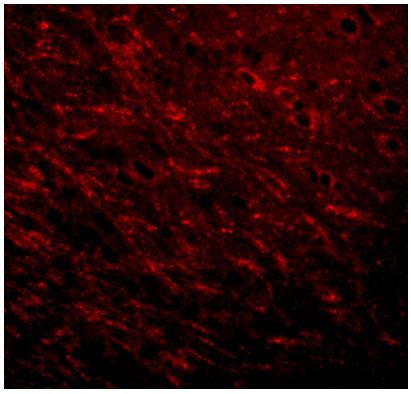
Images



Western blot analysis of Prosapip1 in SK-N-SH cell lysate with Prosapip1 antibody at 1 µg/mL.



Immunohistochemistry of Prosapip1 in rat brain tissue with Prosapip1 antibody at 2.5 µg/mL.



Immunofluorescence of Prosapip 1 in rat brain tissue with Prosapip 1 antibody at 20 µg/mL.

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