

LRFN3 Antibody

Catalog # ASC10864

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q9BTN0
Other Accession	NP_078785 , 13375646
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	66260
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	LRFN3 antibody can be used for detection of LRFN3 by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	79414
Other Names	Leucine-rich repeat and fibronectin type-III domain-containing protein 3, Synaptic adhesion-like molecule 4, LRFN3, SALM4
Target/Specificity	LRFN3; This antibody is predicted to not cross-react with other members of the LRFN family.
Reconstitution & Storage	LRFN3 antibody can be stored at 4°C for three months and -20°C, 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	LRFN3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LRFN3
Synonyms	SALM4
Function	Cell adhesion molecule that mediates homophilic cell-cell adhesion in a Ca(2+)-independent manner. Promotes neurite outgrowth in hippocampal neurons (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cell projection, axon Cell projection, dendrite. Synapse Presynaptic cell membrane. Postsynaptic

Background

LRFN3 Antibody: LRFN3 is one of a family of five transmembrane glycoproteins that are highly expressed in neuronal tissues. LRFN proteins share leucine-rich repeat (LRR)-immunoglobulin-like (Ig)-fibronectin type III (Fn)-transmembrane domain structure with other members of the LRR-Ig-Fn protein superfamily such as the Slitrk family of proteins. Expression of LRFN1, -3, and -4 mRNA was detected in embryonic neuronal cells, while Lrfn2 and Lrfn5 expression was primarily restricted to more mature cells. LRFN1, -2, and -4 bound to PDZ domains of postsynaptic PSD95, re-distributing PSD95 to the cell periphery. It has been suggested that the Lrfn proteins play a role in the developing and/or mature vertebrate nervous system.

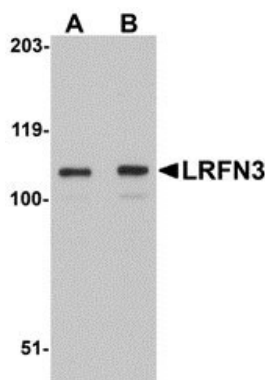
References

Morimura N, Inoue T, Katayama K, et al. Comparative analysis of structure, expression and PSD95-binding capacity of Lrfn, a novel family of neuronal transmembrane proteins. *Gene* 2006; 380:72-83.

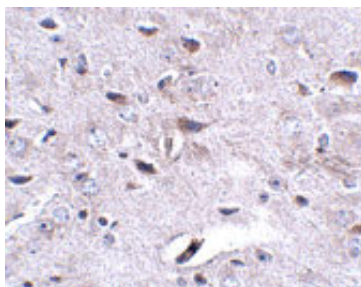
Kobe B and Kajava AV. The leucine-rich repeat as a protein recognition motif. *Curr. Opin. Struct. Biol.* 2001; 11:725-32.

Aruga J and Mikoshiba K. Identification and characterization of Slitrk, a novel transmembrane protein family controlling neurite outgrowth. *Mol. Cell Neurosci.* 2003; 24:117-29.

Images

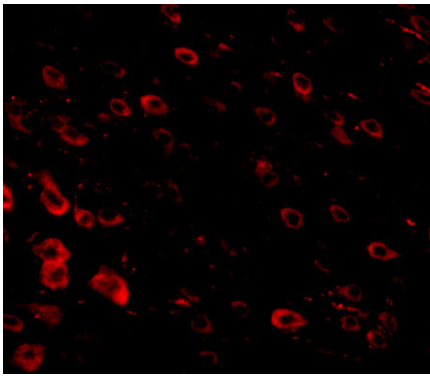


Western blot analysis of LRFN3 in K562 lysate with LRFN3 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of LRFN3 in mouse brain tissue with LRFN3 antibody at 2.5 µg/mL.

Immunofluorescence of LRFN3 in mouse brain tissue with LRFN3 antibody at 20 µg/mL.



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