

LRFN4 Antibody

Catalog # ASC10868

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q6PJG9
Other Accession	Q6PJG9 , 62286924
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	66860
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	LRFN4 antibody can be used for detection of LRFN4 by Western blot at 1 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	78999
Other Names	Leucine-rich repeat and fibronectin type-III domain-containing protein 4, LRFN4, SALM3
Target/Specificity	LRFN4; This antibody is predicted to not cross-react with other members of the LRFN family.
Reconstitution & Storage	LRFN4 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	LRFN4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LRFN4
Synonyms	SALM3
Function	Promotes neurite outgrowth in hippocampal neurons. May play a role in redistributing DLG4 to the cell periphery (By similarity).
Cellular Location	Membrane; Single-pass type I membrane protein

Background

LRFN4 Antibody: LRFN4 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. At least two isoforms of LRFN4 are known to exist.

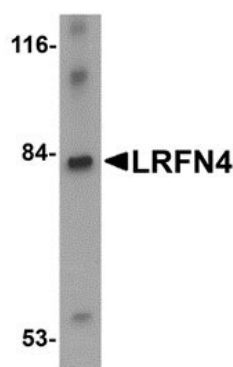
References

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.

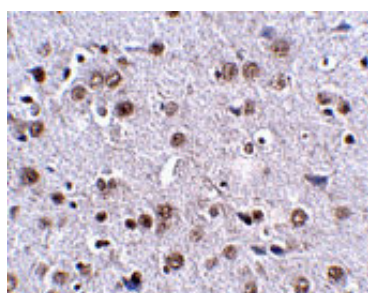
Kobe B and Kajava AV. The leucine-rich repeat as a protein recognition motif. *Curr. Opin. Struct. Biol.*2001; 11:725-32.

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.

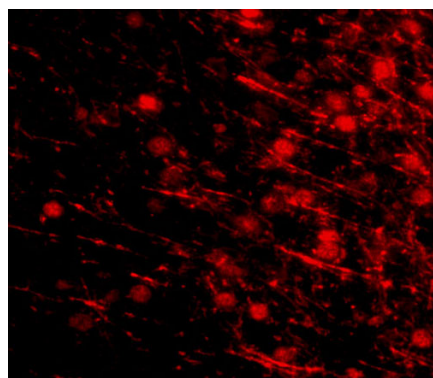
Images



Western blot analysis of LRFN4 in rat brain lysate with LRFN4 antibody at 1 µg/mL.



Immunohistochemistry of LRFN4 in mouse brain tissue with LRFN4 antibody at 2.5 µg/mL.



Immunofluorescence of LRFN4 in mouse brain tissue with LRFN4 antibody at 20 µg/mL.

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