

LRFN5 Antibody

Catalog # ASC10869

Product Information

Application	WB, E, IHC-P
Primary Accession	Q96NI6
Other Accession	Q96NI6 , 116242620
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	79445
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	LRFN5 antibody can be used for detection of LRFN5 by Western blot at 0.5 - 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL.

Additional Information

Gene ID	145581
Other Names	Leucine-rich repeat and fibronectin type-III domain-containing protein 5, LRFN5, C14orf146, SALM5
Target/Specificity	LRFN5; At least two isoforms of LRFN5 are known to exist. This antibody is predicted to not cross-react with other members of the LRFN family.
Reconstitution & Storage	LRFN5 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	LRFN5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LRFN5
Synonyms	C14orf146, SALM5
Function	Cell adhesion molecule that mediates homophilic cell-cell adhesion in a Ca(2+)-independent manner. Promotes neurite outgrowth in hippocampal neurons.
Cellular Location	Membrane; Single-pass type I membrane protein

Background

LRFN5 Antibody: LRFN5 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 Lrnf proteins play a role in the developing and/or mature vertebrate nervous system.

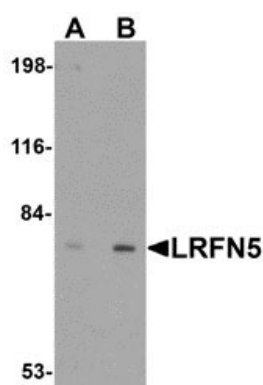
References

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

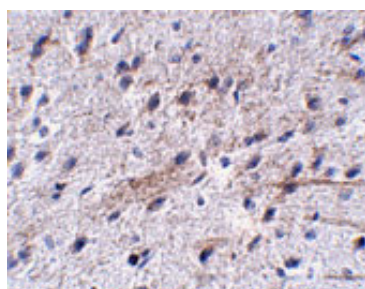
Kobe B and Kajava AV. The leucine-rich repeat as a protein recognition motif. *Curr. Opin. Struct. Biol.*2001; 11:725-32.

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 LRFN5 in EL4 cell lysate with LRFN5 antibody at (A) 0.5 and (B) 1 μ g/mL.



Immunohistochemistry of LRFN5 in mouse brain tissue with LRFN5 antibody at 5 μ g/mL.

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