

LRFN5 Antibody
Catalog # ASC10869**Specification**

LRFN5 Antibody - Product Information

Application	WB, IHC
Primary Accession	Q96NI6
Other Accession	Q96NI6 , 116242620
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	LRFN5 antibody can be used for detection of LRFN5 by Western blot at 0.5 - 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL.

LRFN5 Antibody - Additional InformationGene ID **145581****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.

LRFN5 Antibody - 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

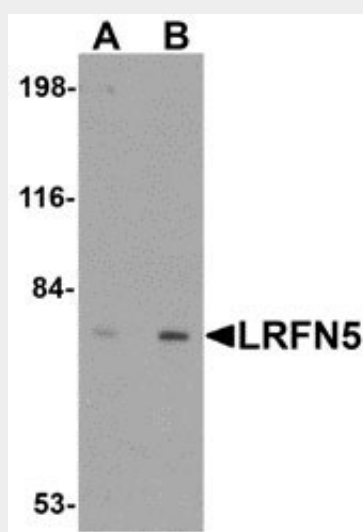
Membrane; Single-pass type I membrane protein

LRFN5 Antibody - Protocols

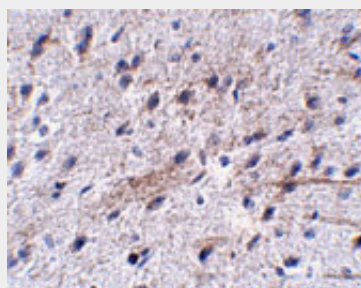
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LRFN5 Antibody - Images



Western blot analysis of LRFN5 in EL4 cell lysate with LRFN5 antibody at (A) 0.5 and (B) 1 µg/mL.



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

LRFN5 Antibody - 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.

LRFN5 Antibody - References

Morimura N, Inoue T, Katayama K, et al. Comparative analysis of structure, expression and PSD95-binding capacity of Lrfr, 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.