

LRFN4 Antibody
Catalog # ASC10868**Specification**

LRFN4 Antibody - Product Information

Application	WB, IHC, IF
Primary Accession	Q6PJG9
Other Accession	Q6PJG9 , 62286924
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	LRFN4 antibody can be used for detection of LRFN4 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.

LRFN4 Antibody - Additional InformationGene ID **78999****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.

LRFN4 Antibody - 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

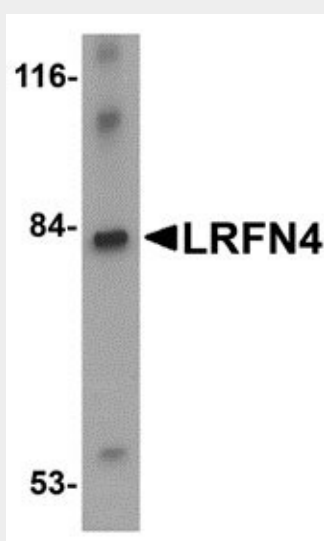
Membrane; Single-pass type I membrane protein

LRFN4 Antibody - Protocols

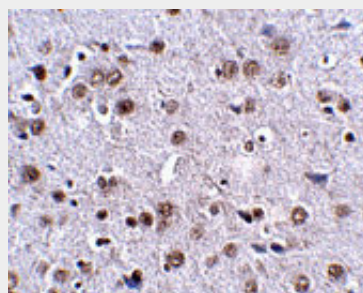
Provided below are standard protocols that you may find useful for product applications.

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

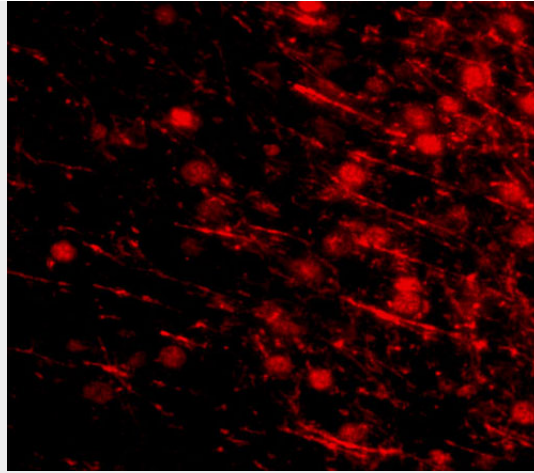
LRFN4 Antibody - Images



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



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



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

LRFN4 Antibody - 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 Lrnf2 and Lrnf5 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. At least two isoforms of LRFN4 are known to exist.

LRFN4 Antibody - 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.