

# LRFN4 (N-12): sc-138391

## BACKGROUND

LRFN4 (leucine rich repeat and fibronectin type III domain containing 4), also known as SALM3 or FIGLER6, is a 635 amino acid single-pass type I membrane protein that belongs to the LRFN family. Containing a fibronectin type-III domain, an Ig-like (immunoglobulin-like) domain, a LRRCT domain, a LRRNT domain and seven LRR (leucine-rich) repeats, LRFN4 is thought to promote neurite outgrowth in hippocampal neurons and may play a role in redistributing PSD-95 to the cell periphery. LRFN4 forms heteromeric complexes with LRFN1, LRFN2, LRFN3 and LRFN5, but does not have the ability to form homomeric complexes across cell junctions of adjacent cells like some other LRFN family members. The PDZ-binding motif of LRFN4 is required for neurite outgrowth promotion and for SAP 97-, NE-dlg- and PSD-95-binding. LRFN4 is encoded by a gene located on human chromosome 11q13.1 and mouse chromosome 19 A.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: LRFN4 (human) mapping to 11q13.1; Lrfn4 (mouse) mapping to 19 A.

## SOURCE

LRFN4 (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of LRFN4 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138391 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

LRFN4 (N-12) is recommended for detection of LRFN4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other LRFN family members.

LRFN4 (N-12) is also recommended for detection of LRFN4 in additional species, including canine and bovine.

Suitable for use as control antibody for LRFN4 siRNA (h): sc-96803, LRFN4 siRNA (m): sc-149036, LRFN4 shRNA Plasmid (h): sc-96803-SH, LRFN4 shRNA Plasmid (m): sc-149036-SH, LRFN4 shRNA (h) Lentiviral Particles: sc-96803-V and LRFN4 shRNA (m) Lentiviral Particles: sc-149036-V.

Molecular Weight of LRFN4: 67 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.