

# LRFN2 (K-14): sc-137571

## BACKGROUND

LRFN2 (leucine rich repeat and fibronectin type III domain containing 2), also known as synaptic adhesion-like molecule 1, SALM1 or fibronectin type III, immunoglobulin and leucine rich repeat domains 2, is a 789 amino acid single-pass type I membrane protein belonging to the LRFN family. Encoded by a gene that maps to human chromosome 6p21.2, LRFN2 is moderately expressed in brain, spleen and testis. LRFN2 contains one fibronectin type-III domain, one Ig-like (immunoglobulin-like) domain and six LRR (leucine-rich) repeats. LRFN2 promotes neurite outgrowth in hippocampal neurons, enhances cell surface expression of two NMDA receptor subunits, NMDA $\zeta$ 1 and NMDA $\epsilon$ 1, and may play a role in redistributing PSD-95 to cell periphery. LRFN2 forms heteromeric complexes with LRFN1, LRFN3, LRFN4 and LRFN5, and is capable of forming homomeric complexes, but not across cell junctions.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: LRFN2 (human) mapping to 6p21.2; Lrfn2 (mouse) mapping to 17 C.

## SOURCE

LRFN2 (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of LRFN2 of human origin.

## STORAGE

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

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-137571 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

LRFN2 (K-14) is recommended for detection of LRFN2 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.

LRFN2 (K-14) is also recommended for detection of LRFN2 in additional species, including bovine, porcine and canine.

Suitable for use as control antibody for LRFN2 siRNA (h): sc-95053, LRFN2 siRNA (m): sc-149034, LRFN2 shRNA Plasmid (h): sc-95053-SH, LRFN2 shRNA Plasmid (m): sc-149034-SH, LRFN2 shRNA (h) Lentiviral Particles: sc-95053-V and LRFN2 shRNA (m) Lentiviral Particles: sc-149034-V.

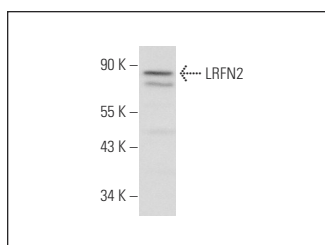
Molecular Weight of LRFN2: 85 kDa.

Positive Controls: U-251-MG whole cell lysate: sc-364176.

## 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.

## DATA



LRFN2 (K-14): sc-137571. Western blot analysis of LRFN2 expression in U-251-MG whole cell lysate.

## RESEARCH USE

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