

LRRC8D (S-16): sc-243362

BACKGROUND

The leucine-rich (LRR) repeat is a 20-30 amino acid motif that forms a hydrophobic α/β horseshoe fold, allowing it to accommodate several leucine residues within a tightly packed core. All LRR repeats contain a variable segment and a highly conserved segment, the latter of which accounts for 11 or 12 residues of the entire LRR motif. The primary function of this motif is to provide a versatile structural framework to mediate the formation of protein-protein interactions. LRRs are present in a variety of proteins with diverse structure and function, including innate immunity and nervous system development. Several human diseases are associated with mutations in genes encoding LRR-containing proteins. LRRC8D (leucine-rich repeat-containing protein 8D, also known as LRRC5, is a 858 amino acid multi-pass membrane protein that contains 13 LRR repeats.

REFERENCES

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- Kobe, B., et al. 2001. The leucine-rich repeat as a protein recognition motif. *Curr. Opin. Struct. Biol.* 11: 725-732.
- Hofman, P., et al. 2001. Lack of blood-brain barrier properties in microvessels of the prelaminar optic nerve head. *Invest. Ophthalmol. Vis. Sci.* 42: 895-901.
- Hughes, J.M., et al. 2004. Vascular leucocyte adhesion molecules unaltered in the human retina in diabetes. *Br. J. Ophthalmol.* 88: 566-572.
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- Matsushima, N., et al. 2005. Structural analysis of leucine-rich-repeat variants in proteins associated with human diseases. *Cell. Mol. Life Sci.* 62: 2771-2791.

CHROMOSOMAL LOCATION

Genetic locus: LRRC8D (human) mapping to 1p22.2; Lrrc8d (mouse) mapping to 5 E5.

SOURCE

LRRC8D (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of LRRC8D of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-243362 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

LRRC8D (S-16) is recommended for detection of LRRC8D of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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 LRRC8 family members.

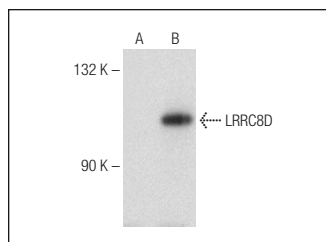
LRRC8D (S-16) is also recommended for detection of LRRC8D in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for LRRC8D siRNA (h): sc-88508, LRRC8D siRNA (m): sc-149108, LRRC8D shRNA Plasmid (h): sc-88508-SH, LRRC8D shRNA Plasmid (m): sc-149108-SH, LRRC8D shRNA (h) Lentiviral Particles: sc-88508-V and LRRC8D shRNA (m) Lentiviral Particles: sc-149108-V.

Molecular Weight of LRRC8D: 98 kDa.

Positive Controls: LRRC8D (m): 293T Lysate: sc-121417.

DATA



LRRC8D (S-16): sc-243362. Western blot analysis of LRRC8D expression in non-transfected: sc-117752 (A) and mouse LRRC8D transfected: sc-121417 (B) 293T whole cell lysates.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **LRRC8D (A-12): sc-515070**, our highly recommended monoclonal alternative to LRRC8D (S-16).