

LRRC8C (H-45): sc-135294

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 these motifs 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. LRRC8C (leucine-rich repeat-containing protein 8C), also known as FAD158 (factor for adipocyte differentiation 158) or AD158, is a 803 amino acid protein that contains 14 LRR repeats. Localized to the endoplasmic reticulum membrane, LRRC8C may play a role in adipogenesis. LRRC8C is expressed at high levels in skeletal muscle, with lower levels found in lung, heart and peripheral blood leukocytes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LRRC8C (human) mapping to 1p22.2; *Lrrc8c* (mouse) mapping to 5 E5.

SOURCE

LRRC8C (H-45) is a rabbit polyclonal antibody raised against amino acids 726-770 mapping near the C-terminus of LRRC8C 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.

APPLICATIONS

LRRC8C (H-45) is recommended for detection of LRRC8C 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).

LRRC8C (H-45) is also recommended for detection of LRRC8C in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for LRRC8C siRNA (h): sc-88598, LRRC8C siRNA (m): sc-149107, LRRC8C shRNA Plasmid (h): sc-88598-SH, LRRC8C shRNA Plasmid (m): sc-149107-SH, LRRC8C shRNA (h) Lentiviral Particles: sc-88598-V and LRRC8C shRNA (m) Lentiviral Particles: sc-149107-V.

Molecular Weight of LRRC8C: 92 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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 or our catalog for detailed protocols and support products.