

LRRC8E (X-24): sc-133764

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. LRRC8E (leucine-rich repeat-containing protein 8E) is a 796 amino acid multi-pass membrane protein that contains 13 LRR (leucine-rich) repeats and is expressed in placenta, pancreas, liver and lung. The LRRC8 protein family is involved in B cell development and differentiation. Mutation or deficiency of LRRC8 proteins is the cause of agammaglobulinemia, an inherited disorder in which there are very low levels of immunoglobulins.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LRRC8E (human) mapping to 19p13.2; Lrrc8e (mouse) mapping to 8 A1.1.

SOURCE

LRRC8E (X-24) is an affinity purified rabbit polyclonal antibody raised against synthetic LRRC8E peptide of human origin.

PRODUCT

Each vial contains 50 μ g IgG in 500 μ l PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

LRRC8E (X-24) is recommended for detection of LRRC8E 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for LRRC8E siRNA (h): sc-97525, LRRC8E siRNA (m): sc-149109, LRRC8E shRNA Plasmid (h): sc-97525-SH, LRRC8E shRNA Plasmid (m): sc-149109-SH, LRRC8E shRNA (h) Lentiviral Particles: sc-97525-V and LRRC8E shRNA (m) Lentiviral Particles: sc-149109-V.

Molecular Weight of LRRC8E: 85/515/600 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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).

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.