

LIR-8 (H-43): sc-292508

BACKGROUND

The leukocyte immunoglobulin-like receptor (LIR) gene family maps to a cluster on chromosome 19 and encodes two subfamilies of LIR proteins, namely subfamily A and subfamily B. The subfamily B class of LIRs are characterized by the presence of a transmembrane domain, two to four extracellular Ig-like (immunoglobulin-like) domains and two to four cytoplasmic immunoreceptor tyrosine-based inhibitory motifs (ITIMs). Class B LIRs are expressed on antigen-presenting B cells and monocytes where they function to bind MHC class I molecules, thereby inducing an inhibitory cascade that prevents immune system responses throughout the cell. LIR-8 (leukocyte immunoglobulin-like receptor 8), also known as LILRB5 or CD85C, is a 590 amino acid single-pass type I membrane protein that contains 4 Ig-like domains and belongs to the B subfamily of LIR receptors. LIR-8 exists as two alternatively spliced isoforms and is thought to function as a receptor for MHC class I molecules, possibly contributing to inhibitory cascades within the immune system.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LILRB5 (human) mapping to 19q13.42.

SOURCE

LIR-8 (H-43) is a rabbit polyclonal antibody raised against amino acids 397-439 mapping within an internal region of LIR-8 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.

APPLICATIONS

LIR-8 (H-43) is recommended for detection of LIR-8 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

Suitable for use as control antibody for LIR-8 siRNA (h): sc-105620, LIR-8 shRNA Plasmid (h): sc-105620-SH and LIR-8 shRNA (h) Lentiviral Particles: sc-105620-V.

Molecular Weight of LIR-8: 64 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.