

ISLR (S-14): sc-137537

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. ISLR (immunoglobulin superfamily containing leucine-rich repeat) is a 428 amino acid secreted protein that contains one Ig-like domain and 6 LRR repeats and is expressed in a variety of tissues, including ovary, heart, thyroid, testis, prostate and spinal cord. Via its Ig and LRR domains, ISLR is thought to play a role in adhesion or binding to other proteins at the cell surface.

REFERENCES

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6. Kobe, B. and Kajava, A.V. 2001. The leucine-rich repeat as a protein recognition motif. *Curr. Opin. Struct. Biol.* 11: 725-732.
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CHROMOSOMAL LOCATION

Genetic locus: ISLR (human) mapping to 15q24.1; Islr (mouse) mapping to 9 B.

SOURCE

ISLR (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ISLR 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.

PROTOCOLS

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

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-137537 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ISLR (S-14) is recommended for detection of ISLR 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 ISLR2.

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

Suitable for use as control antibody for ISLR siRNA (h): sc-90174, ISLR siRNA (m): sc-146298, ISLR shRNA Plasmid (h): sc-90174-SH, ISLR shRNA Plasmid (m): sc-146298-SH, ISLR shRNA (h) Lentiviral Particles: sc-90174-V and ISLR shRNA (m) Lentiviral Particles: sc-146298-V.

Molecular Weight of ISLR: 46 kDa.

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.

RESEARCH USE

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