

RIL (H-130): sc-98371

BACKGROUND

RIL (reversion-induced LIM protein), also known as PDZ and LIM domain protein 4, is a widely expressed 334 amino acid protein. RIL contains one PDZ (DHR) domain and one LIM zinc-binding domain. The LIM zinc-binding domain interacts with the second and fourth PDZ domains of Fap-1, possibly resulting in the dephosphorylation of RIL. Although an exact function is unknown, RIL expression in human bone marrow stromal cells suggests involvement in osteoblast development and function. Variations in the RIL gene have been shown to have an allelic dose effect on bone mineral density (BMD), with BMD being an important determinant of osteoporosis. RIL exists as two isoforms, with isoform 2 present in the brain.

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CHROMOSOMAL LOCATION

Genetic locus: PDLIM4 (human) mapping to 5q31.1; Pdlim4 (mouse) mapping to 11 B1.3.

SOURCE

RIL (H-130) is a rabbit polyclonal antibody raised against amino acids 71-200 mapping within an internal region of RIL 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

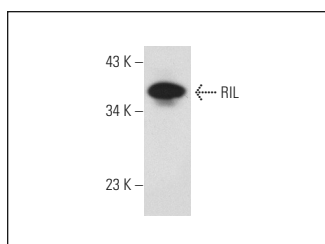
RIL (H-130) is recommended for detection of RIL of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for RIL siRNA (h): sc-91925, RIL siRNA (m): sc-152959, RIL shRNA Plasmid (h): sc-91925-SH, RIL shRNA Plasmid (m): sc-152959-SH, RIL shRNA (h) Lentiviral Particles: sc-91925-V and RIL shRNA (m) Lentiviral Particles: sc-152959-V.

Molecular Weight of RIL: 35 kDa.

Positive Controls: SK-N-SH cell lysate: sc-2410.

DATA



RIL (H-130): sc-98371. Western blot analysis of RIL expression in SK-N-SH whole cell lysate.

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.



Try **RIL (D-8): sc-166582**, our highly recommended monoclonal alternative to RIL (H-130).