

RILP (H-85): sc-98331

BACKGROUND

RILP (Rab interacting lysosomal protein), also known as PP10141, is a 401 amino acid protein that contains one RILP-like domain and localizes to cytoplasmic vesicles, as well as to the late endosome membrane and the intracytoplasmic membrane. Expressed ubiquitously with strongest expression in spleen, heart, stomach, liver, lung and salivary gland, RILP exists as a homodimer that affects Rab function and plays an important role in late endocytic transport to degradative compartments. In addition, RILP is involved in the recruitment of Dynein-Dynactin motor complex to late endosomes and also participates in the regulation of lysosomal morphology and distribution. Two isoforms of RILP exist due to alternative splicing events.

REFERENCES

1. Bucci, C., De Gregorio, L. and Bruni, C.B. 2001. Expression analysis and chromosomal assignment of PRA1 and RILP genes. *Biochem. Biophys. Res. Commun.* 286: 815-819.
2. Cantalupo, G., Alifano, P., Roberti, V., Bruni, C.B. and Bucci, C. 2001. Rab-interacting lysosomal protein (RILP): the Rab 7 effector required for transport to lysosomes. *EMBO J.* 20: 683-693.

CHROMOSOMAL LOCATION

Genetic locus: RILP (human) mapping to 17p13.3; Rilp (mouse) mapping to 11 B5.

SOURCE

RILP (H-85) is a rabbit polyclonal antibody raised against amino acids 31-115 mapping near the N-terminus of RILP 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

RILP (H-85) is recommended for detection of RILP of mouse, rat and 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RILP (H-85) is also recommended for detection of RILP in additional species, including canine, bovine and porcine.

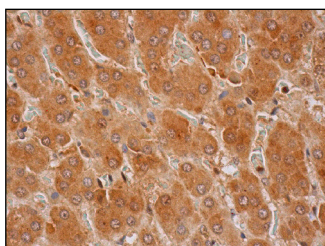
Suitable for use as control antibody for RILP siRNA (h): sc-76404, RILP siRNA (m): sc-76405, RILP shRNA Plasmid (h): sc-76404-SH, RILP shRNA Plasmid (m): sc-76405-SH, RILP shRNA (h) Lentiviral Particles: sc-76404-V and RILP shRNA (m) Lentiviral Particles: sc-76405-V.

Molecular Weight of RILP: 45 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



RILP (H-85): sc-98331. Immunoperoxidase staining of formalin fixed, paraffin-embedded human adrenal gland tissue showing cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

1. De Luca, M., Cogli, L., Progida, C., Nisi, V., Pascolutti, R., Sigismund, S., Di Fiore, P.P. and Bucci, C. 2014. RILP regulates vacuolar ATPase through interaction with the V1G1 subunit. *J. Cell Sci.* 127: 2697-2708.

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.