

Ral BP-1 (H-300): sc-28575

BACKGROUND

Ral A and Ral B constitute a distinct subfamily of Ras-related GTPases (i.e., GDP/GTP binding proteins). Ral proteins are activated by a unique nucleotide exchange factor, Ral GDS, and deactivated by a distinct GTPase-activating protein. Unlike Ras proteins, Ral A and Ral B fail to induce transformed foci when activated variants are expressed in various recipient cells. A potential downstream target of Ral, designated Ral BP-1, has been shown to contain a Rho-GTPase-activating domain. This Rho-GTPase-activating domain interacts preferentially with the Rho family member Cdc42. A Ras/Ral signaling pathway has been reported to mediate phospholipase D (PLD) activation by v-Src, thus indicating PLD as another downstream target of Ral A.

REFERENCES

1. Wildey, G.M., Viggleswarapu, M., Rim, S. and Denker, J.K. 1993. Isolation of cDNA clones and tissue expression of rat Ral A and Ral B GTP-binding proteins. *Biochem. Biophys. Res. Commun.* 194: 552-559.
2. Hofer, F., Fields, S., Schneider, C. and Martin, G.S. 1994. Activated Ras interacts with the Ral guanine nucleotide dissociation stimulator. *Proc. Natl. Acad. Sci. USA* 91: 11089-11093.

CHROMOSOMAL LOCATION

Genetic locus: RALBP1 (human) mapping to 18p11.22; Ralbp1 (mouse) mapping to 17 E1.1.

SOURCE

Ral BP-1 (H-300) is a rabbit polyclonal antibody raised against amino acids 356-655 (deletion 581-592) mapping at the C-terminus of Ral BP-1 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

Ral BP-1 (H-300) is recommended for detection of Ral BP-1 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Ral BP-1 (H-300) is also recommended for detection of Ral BP-1 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for Ral BP-1 siRNA (h): sc-36376, Ral BP-1 siRNA (m): sc-36377, Ral BP-1 shRNA Plasmid (h): sc-36376-SH, Ral BP-1 shRNA Plasmid (m): sc-36377-SH, Ral BP-1 shRNA (h) Lentiviral Particles: sc-36376-V and Ral BP-1 shRNA (m) Lentiviral Particles: sc-36377-V.

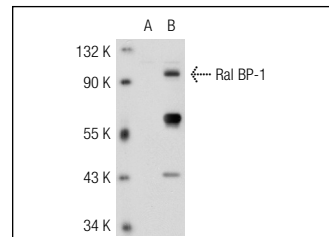
Molecular Weight of Ral BP-1: 95 kDa.

Positive Controls: Ral BP-1 (m): 293T Lysate: sc-122954, Ral BP-1 (h): 293T Lysate: sc-113513 or NIH/3T3 whole cell lysate: sc-2210.

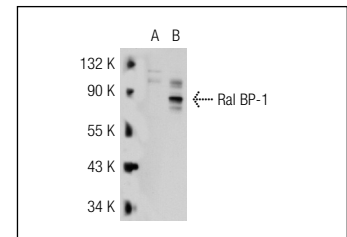
RECOMMENDED SECONDARY REAGENTS

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.

DATA



Ral BP-1 (H-300): sc-28575. Western blot analysis of Ral BP-1 expression in non-transfected: sc-117752 (A) and mouse Ral BP-1 transfected: sc-122954 (B) 293T whole cell lysates.



Ral BP-1 (H-300): sc-28575. Western blot analysis of Ral BP-1 expression in non-transfected: sc-117752 (A) and human Ral BP-1 transfected: sc-113513 (B) 293T whole cell lysates.

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.


 MONOS
Satisfaction
Guaranteed

Try **Ral BP-1 (H-10): sc-48337**, our highly recommended monoclonal alternative to Ral BP-1 (H-300).