Ral GDS (H-110): sc-25636



The Boures to Overtion

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

- Wildey, G.M., et al. 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.
- Hofer, F., et al. 1994. Activated Ras interacts with the Ral guanine nucleotide dissociation stimulator. Proc. Natl. Acad. Sci. USA 91: 11089-11093.

CHROMOSOMAL LOCATION

Genetic locus: RALGDS (human) mapping to 9q34.2; Ralgds (mouse) mapping to 2 A3.

SOURCE

Ral GDS (H-110) is a rabbit polyclonal antibody raised against amino acids 42-110 mapping near the N-terminus of Ral GDS of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Ral GDS (H-110) is recommended for detection of Ral GDS 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 GDS (H-110) is also recommended for detection of Ral GDS in additional species, including canine and avian.

Suitable for use as control antibody for Ral GDS siRNA (h): sc-41730, Ral GDS siRNA (m): sc-41731, Ral GDS shRNA Plasmid (h): sc-41730-SH, Ral GDS shRNA Plasmid (m): sc-41731-SH, Ral GDS shRNA (h) Lentiviral Particles: sc-41730-V and Ral GDS shRNA (m) Lentiviral Particles: sc-41731-V.

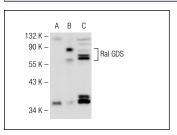
Molecular Weight of Ral GDS: 115 kDa.

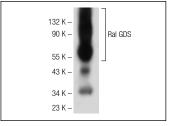
Positive Controls: Ral GDS (m): 293T Lysate: sc-127440, HeLa whole cell lysate: sc-2200 or MIA PaCa-2 cell lysate: sc-2285.

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 GDS (H-110): sc-25636. Western blot analysis of Ral GDS expression in non-transfected 293T: sc-117752 (**A**), mouse Ral GDS transfected 293T: sc-127440 (**B**) and HeLa (**C**) whole cell lysates.

Ral GDS (H-110): sc-25636. Western blot analysis of Ral GDS expression in MIA PaCa-2 whole cell lysate

SELECT PRODUCT CITATIONS

 Rondaij, M.G., et al. 2008. Guanine exchange factor Ral GDS mediates exocytosis of Weibel-Palade bodies from endothelial cells. Blood 112: 56-63.

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 **Ral GDS (C-11):** sc-393809, our highly recommended monoclonal alternative to Ral GDS (H-110).

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