Ral A (C-19): sc-1530



The Power 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

- 1. Wildey, G.M., Viggeswarapu, 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: RALA (human) mapping to 7p14.1; Rala (mouse) mapping to 13 A2.

SOURCE

Ral A (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Ral A 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.

Blocking peptide available for competition studies, sc-1530 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Ral A (C-19) is recommended for detection of Ral A 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).

Ral A (C-19) is also recommended for detection of Ral A in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Ral A siRNA (h): sc-41842, Ral A siRNA (m): sc-41843, Ral A shRNA Plasmid (h): sc-41842-SH, Ral A shRNA Plasmid (m): sc-41843-SH, Ral A shRNA (h) Lentiviral Particles: sc-41842-V and Ral A shRNA (m) Lentiviral Particles: sc-41843-V.

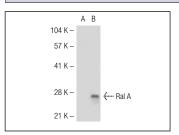
Molecular Weight of Ral A: 28 kDa.

Positive Controls: Ral A (h2): 293T lysate: sc-115540.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



Ral A (C-19): sc-1530. Western blot analysis of Ral A expression in non-transfected: sc-117752 (A) and human Ral A transfected: sc-115540 (B) 293T whole cell Ivsates.

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 A (F-5): sc-374462 or Ral A/B (F-2): sc-373998, our highly recommended monoclonal alternatives to Ral A (C-19).

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