

# RASAL1 (N-19): sc-68772

## BACKGROUND

RASAL1 (Ras protein activator like 1) is an 804 amino acid protein that exists as 2 alternatively spliced isoforms and contains one Rag-GAP domain, one PH domain, one Btk-type zinc finger and 2 C2 domains. Expressed at high levels in thyroid and adrenal medulla and present at lower levels in trachea, brain and spinal cord, RASAL1 is thought to function as an inhibitory regulator of the Ras-cyclic AMP pathway, possibly enhancing Ras GTPase activity and playing a role in the regulation of cellular proliferation and differentiation. Lowered expression of RASAL1 is associated with the progression of several types of human cancers, suggesting a role for RASAL1 in tumor suppression and apoptotic control.

## REFERENCES

- Allen, M., Chu, S., Brill, S., Stotler, C. and Buckler, A. 1998. Restricted tissue expression pattern of a novel human Ras GAP-related gene and its murine ortholog. *Gene* 218: 17-25.
- Schmitt, J.M. and Stork, P.J. 2002.  $G_{\alpha}$  and  $G_{\beta\gamma}$  require distinct Src-dependent pathways to activate Rap 1 and Ras. *J. Biol. Chem.* 277: 43024-43032.

## CHROMOSOMAL LOCATION

Genetic locus: RASAL1 (human) mapping to 12q24.13; Rasal1 (mouse) mapping to 5 F.

## SOURCE

RASAL1 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of RASAL1 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-68772 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

RASAL1 (N-19) is recommended for detection of RASAL1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

RASAL1 (N-19) is also recommended for detection of RASAL1 in additional species, including equine, canine, bovine and porcine.

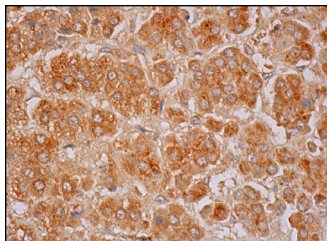
Suitable for use as control antibody for RASAL1 siRNA (h): sc-76351, RASAL1 siRNA (m): sc-76352, RASAL1 shRNA Plasmid (h): sc-76351-SH, RASAL1 shRNA Plasmid (m): sc-76352-SH, RASAL1 shRNA (h) Lentiviral Particles: sc-76351-V and RASAL1 shRNA (m) Lentiviral Particles: sc-76352-V.

Molecular Weight of RASAL1: 90 kDa.

## 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) 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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



RASAL1 (N-19): sc-68772. Immunoperoxidase staining of formalin fixed, paraffin-embedded human adrenal gland tissue showing cytoplasmic staining of glandular cells.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **RASAL1 (B-2): sc-398025**, our highly recommended monoclonal alternative to RASAL1 (N-19).