**BACKGROUND**

RASAL1 (Ras protein activatorlike 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**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

RASAL1 (H-57) is a rabbit polyclonal antibody raised against amino acids 62-118 mapping near the N-terminus of RASAL1 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.

**STORAGE**

Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

RASAL1 (H-57) 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), 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).

RASAL1 (H-57) is also recommended for detection of RASAL1 in additional species, including equine, bovine, porcine and canine.

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 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-2780 (dilution range: 1:100-1:1000) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:1000) with UltraCruz™ Mounting Medium: sc-24941.

**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 RASAL1 (B-2): sc-39025, our highly recommended monoclonal alternative to RASAL1 (H-57).