

RASAL2 (S-17): sc-67935

BACKGROUND

RASAL2 (Ras protein activator like 2), also known as nGAP, is a Ras GTPase-activating protein. RAS proteins cycle between an active guanosine-triphosphate (GTP) bound form and an inactive, guanosine-diphosphate (GDP) bound form. GTPase-activating proteins (GAPs) accelerate the intrinsic rate of GTP hydrolysis of Ras-related proteins, resulting in downregulation of their active form. RASAL2 functions in the Ras/MAPK/ERK signaling pathway. It contains a C2 domain, a PH domain and a Ras-GAP domain. The gene encoding RASAL2 is located on chromosome 1q25.2 within the prostate cancer susceptibility locus. This suggests that a mutation or defect in RASAL2 is implicated in carcinogenesis. Two transcript variants exist for RASAL2 due to alternative splicing events.

CHROMOSOMAL LOCATION

Genetic locus: RASAL2 (human) mapping to 1q25.2; Rasal2 (mouse) mapping to 1 H1.

SOURCE

RASAL2 (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of RASAL2 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-67935 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

RASAL2 (S-17) is recommended for detection of RASAL2 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).

RASAL2 (S-17) is also recommended for detection of RASAL2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for RASAL2 siRNA (h): sc-62924, RASAL2 siRNA (m): sc-62925, RASAL2 shRNA Plasmid (h): sc-62924-SH, RASAL2 shRNA Plasmid (m): sc-62925-SH, RASAL2 shRNA (h) Lentiviral Particles: sc-62924-V and RASAL2 shRNA (m) Lentiviral Particles: sc-62925-V.

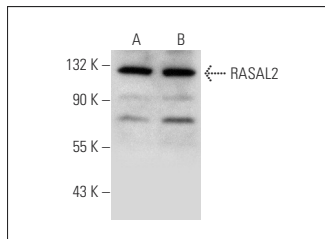
Molecular Weight of RASAL2: 129 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, HEK293 whole cell lysate: sc-45136 or K-562 whole cell lysate: sc-2203.

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



RASAL2 (S-17): sc-67935. Western blot analysis of RASAL2 expression in HeLa (A) and K-562 (B) whole cell lysates.

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.


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Try **RASAL2 (B-11): sc-390605**, our highly recommended monoclonal alternative to RASAL2 (S-17).