

# RASAL2 (H-48): sc-68358

## 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 1 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.

## REFERENCES

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## CHROMOSOMAL LOCATION

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

## SOURCE

RASAL2 (H-48) is a rabbit polyclonal antibody raised against amino acids 1-48 mapping at 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.

## APPLICATIONS

RASAL2 (H-48) 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 (H-48) is also recommended for detection of RASAL2 in additional species, including canine.

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.

## 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.

## 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.


 MONOS  
 Satisfaction  
 Guaranteed

Try **RASAL2 (B-11): sc-390605**, our highly recommended monoclonal alternative to RASAL2 (H-48).