

# RASAL3 (L-20): sc-243927

## BACKGROUND

RASAL3 (RAS protein activator like 3) is a 1,011 amino acid protein that contains a C2 domain, a PH domain and a Ras-GAP domain. It is suggested that RASAL3 functions as a Ras GTPase-activating protein. Existing as two alternatively spliced isoforms, the RASAL3 gene is conserved in canine, bovine, mouse and rat, and maps to human chromosome 19p13.12. Chromosome 19 consists of approximately 63 million bases and makes up over 2% of human genomic DNA. Chromosome 19 is recognized for having the greatest gene density of the human chromosomes and is the genetic home for a number of immunoglobulin superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fc $\alpha$  receptors. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and Insulin-dependent diabetes have been linked to chromosome 19.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: RASAL3 (human) mapping to 19p13.12; Rasal3 (mouse) mapping to 17 B1.

## SOURCE

RASAL3 (L-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RASAL3 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-243927 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

RASAL3 (L-20) is recommended for detection of RASAL3 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RASAL3 (L-20) is also recommended for detection of RASAL3 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for RASAL3 siRNA (m): sc-140643, RASAL3 shRNA Plasmid (m): sc-140643-SH and RASAL3 shRNA (m) Lenti-viral Particles: sc-140643-V.

Molecular Weight of RASAL3 isoforms: 112/104 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.

## 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.