

# RGL3 (T-14): sc-240820

## BACKGROUND

RGL3, also known as ral guanine nucleotide dissociation stimulator-like 3, is a 710 amino acid protein that interacts with GTP-bound forms of RIT1, HRAS and MRAS. The RGL3 protein contains an N-terminal Ras-GEF domain, a Ras-associating domain and a Ras-GEF domain. RGL3 is a guanine nucleotide exchange factor (GEF) for Ral-A and a potential effector of GTPase HRas and Ras-related protein M-Ras. RGL3 negatively regulates Elk-1-dependent gene induction downstream of HRas and MEKK1. The RGL3 gene is conserved in dog, mouse, rat, and zebrafish, and maps to human chromosome 19p13.2. Chromosome 19 consists of approximately 63 million bases and makes up over 2% of human genomic DNA. Chromosome 19 includes a variety of genes with diverse function and is recognized for having the greatest gene density of the human chromosomes. It 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 families, and Fc $\alpha$  receptors. Key genes for eye color and hair color also map to chromosome 19.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: RGL3 (human) mapping to 19p13.2; Rgl3 (mouse) mapping to 9 A3.

## SOURCE

RGL3 (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RGL3 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-240820 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

RGL3 (T-14) is recommended for detection of RGL3 of mouse 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); non cross-reactive with RGL1 or RGL4.

Suitable for use as control antibody for RGL3 siRNA (h): sc-97315, RGL3 siRNA (m): sc-152836, RGL3 shRNA Plasmid (h): sc-97315-SH, RGL3 shRNA Plasmid (m): sc-152836-SH, RGL3 shRNA (h) Lentiviral Particles: sc-97315-V and RGL3 shRNA (m) Lentiviral Particles: sc-152836-V.

Molecular Weight of RGL3: 78 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> 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.