**BACKGROUND**

RalGDS (Ral guanine nucleotide dissociation stimulator) is a guanine nucleotide exchange factor (GEF) that activates Ral and is implicated in oncogenic Ras-induced cell transformation. RGL1 (ral guanine nucleotide dissociation stimulator-like 1), also known as RalGDS-like 1, is a 768 amino acid protein that is a putative GEF. Strongly expressed in brain, heart, spleen, kidney and testis, RGL1 is a downstream effector protein that is involved in Ras and Ral signaling pathways. RGL1 contains an N-terminal Ras-GEF domain and a C-terminal Ras-interacting domain that interacts with the GTP-bound form of Ras through its effector loop. Due to its similarity to RalGDS, RGL1 may be implicated in carcinogenesis. Two isoforms exist due to alternative splicing events.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: RGL1 (human) mapping to 1q25.3; Rgl1 (mouse) mapping to 1G3.

**SOURCE**

RGL1 (G-2) is a mouse monoclonal antibody raised against amino acids 501-588 mapping within an internal region of RGL1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

RGL1 (G-2) is available conjugated to agarose (sc-377170 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377170 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-377170 PE), fluorescein (sc-377170 FITC), Alexa Fluor® 488 (sc-377170 AF488), Alexa Fluor® 546 (sc-377170 AF546), Alexa Fluor® 594 (sc-377170 AF594) or Alexa Fluor® 647 (sc-377170 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-377170 AF680) or Alexa Fluor® 790 (sc-377170 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

RGL1 (G-2) is recommended for detection of RGL1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for RGL1 siRNA (h): sc-62936, RGL1 siRNA (m): sc-62937, RGL1 shRNA Plasmid (h): sc-62936-SH, RGL1 shRNA Plasmid (m): sc-62937-SH, RGL1 shRNA (h) Lentiviral Particles: sc-62936-V and RGL1 shRNA (m) Lentiviral Particles: sc-62937-V.

Molecular Weight of RGL1: 87 kDa. Positive Controls: RAW 264.7 whole cell lysate: sc-2211 or human kidney extract: sc-36374.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting LuminoL Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).


**DATA**

![Western blot analysis of RGL1 expression in human kidney tissue extract.](image1)

![Western blot analysis of RGL1 expression in RAW 264.7 whole cell lysate.](image2)

**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 for detailed protocols and support products.