RGS18 (U-22): sc-133957



The Power to Question

BACKGROUND

The regulators of G protein signaling (RGS) proteins inhibit heterotrimeric G protein signaling. RGS proteins work by functioning as GTPase-activating proteins (which increase the GTPase activity of G protein α subunits) thereby driving G proteins into their inactive GDP-bound form. RGS18 is a 234 amino acid peptide expressed mainly in megakaryocyte cells, but also in hematopoietic progenitor and myeloerythroid lineage cells. RGS18 expression is upregulated during megakaryocyte differentiation and may play an important role in the mediation of megakaryocyte chemotaxis. Structurally, RGS18 contains phosphorylation sites for casein kinase II, protein kinase C and protein kinase A. RGS18 specifically binds to two α subunits of the G protein, G_{α} i and G_{α} or

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RGS18 (human) mapping to 1q31.2.

SOURCE

RGS18 (U-22) is a Protein A purified rabbit polyclonal antibody raised against synthetic RGS18 peptide of human origin.

PRODUCT

Each vial contains 100 μg lgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

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.

APPLICATIONS

RGS18 (U-22) is recommended for detection of RGS18 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000)

Suitable for use as control antibody for RGS18 siRNA (h): sc-61468, RGS18 shRNA Plasmid (h): sc-61468-SH and RGS18 shRNA (h) Lentiviral Particles: sc-61468-V.

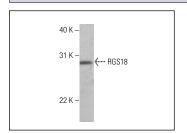
Molecular Weight of RGS18: 26 kDa.

Positive Controls: human fetal thymus tissue extract.

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).

DATA



RGS18 (U-22): sc-133957. Western blot analysis of RGS18 expression in human fetal thymus tissue extract.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **RGS18 (F-5): sc-390908**, our highly recommended monoclonal alternative to RGS18 (U-22).

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