

GMIP (S-14): sc-240522

BACKGROUND

The Rho family of GTP-binding proteins plays a role in the development of neuronal structure. The activation of the GTP-bound form is regulated by GTPase-activating proteins, which stimulate GTP hydrolysis, leading to inactivation. GMIP (gem-interacting protein) is a 970 amino acid protein that stimulates the GTPase activity of RhoA *in vitro* and *in vivo*. GMIP interacts with Gem through its N-terminus and has a Rho GTPase-activating protein domain at its C-terminus. GMIP is able to inhibit RhoA function, leading to Actin cytoskeletal reorganization *in vivo*. Encoded by a gene that maps to human chromosome 19p13.11, GMIP contains one phorbol-ester/DAG-type zinc finger and one Rho-GAP domain.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GMIP (human) mapping to 19p13.11; Gmip (mouse) mapping to 8 B3.3.

SOURCE

GMIP (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of GMIP 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.

Blocking peptide available for competition studies, sc-240522 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GMIP (S-14) is recommended for detection of GMIP 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).

GMIP (S-14) is also recommended for detection of GMIP in additional species, including equine.

Suitable for use as control antibody for GMIP siRNA (h): sc-97341, GMIP siRNA (m): sc-145646, GMIP shRNA Plasmid (h): sc-97341-SH, GMIP shRNA Plasmid (m): sc-145646-SH, GMIP shRNA (h) Lentiviral Particles: sc-97341-V and GMIP shRNA (m) Lentiviral Particles: sc-145646-V.

Molecular Weight of GMIP: 107 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 or our catalog for detailed protocols and support products.