

Gcap14 (S-18): sc-242895

BACKGROUND

Gcap14, also known as FAM190B (family with sequence similarity 190, member B), is an 834 amino acid protein that exists as 3 alternatively spliced isoforms and belongs to the FAM190 family. The gene encoding Gcap14 maps to human chromosome 10q23.1. Spanning nearly 135 million base pairs, chromosome 10 makes up approximately 4.5% of total DNA in cells and encodes nearly 1,200 genes. Several protein-coding genes, including those that encode for chemokines, cadherins, excision repair proteins, early growth response factors (Egrs) and fibroblast growth receptors (FGFRs), are located on chromosome 10. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromic deafness, Wolman's syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAM190B (human) mapping to 10q23.1; Gcap14 (mouse) mapping to 14 B.

SOURCE

Gcap14 (S-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Gcap14 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-242895 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Gcap14 (S-18) is recommended for detection of Gcap14 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).

Gcap14 (S-18) is also recommended for detection of Gcap14 in additional species, including bovine and porcine.

Suitable for use as control antibody for Gcap14 siRNA (h): sc-90665, Gcap14 siRNA (m): sc-145355, Gcap14 shRNA Plasmid (h): sc-90665-SH, Gcap14 shRNA Plasmid (m): sc-145355-SH, Gcap14 shRNA (h) Lentiviral Particles: sc-90665-V and Gcap14 shRNA (m) Lentiviral Particles: sc-145355-V.

Molecular Weight of Gcap14 isoforms: 93/63/117 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.