

GMAP-210 (K-15): sc-54813

BACKGROUND

Golgi microtubule-associated protein 210 (GMAP-210), also referred to as CEV14, Trip11 or Trip230, is a peripheral Golgi protein that localizes to the *cis*-Golgi network. GMAP-210 is a 1,978 amino acid coiled-coil member of the golgin family of proteins. Microtubule ends bind to GMAP-210 which functions to link the *cis*-Golgi network to the minus ends of centrosome-nucleated microtubules. This interaction may be essential for the proper morphology and structural maintenance of the Golgi apparatus. GMAP-210 also associates with thyroid hormone receptor- β . Overexpression of GMAP-210 disrupts the microtubule network and causes a significant enlargement and fragmentation of the Golgi apparatus; it also blocks anterograde and retrograde transport between the ER and the Golgi apparatus.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TRIP11 (human) mapping to 14q32.12.

SOURCE

GMAP-210 (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of GMAP-210 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-54813 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GMAP-210 (K-15) is recommended for detection of GMAP-210 of 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)

GMAP-210 (K-15) is also recommended for detection of GMAP-210 in additional species, including canine and porcine.

Suitable for use as control antibody for GMAP-210 siRNA (h): sc-62387, GMAP-210 shRNA Plasmid (h): sc-62387-SH and GMAP-210 shRNA (h) Lentiviral Particles: sc-62387-V.

Molecular Weight of GMAP-210: 210 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.