

golgin 160 (N-16): sc-79966

BACKGROUND

The Golgi apparatus consists of a series of stacked, flattened membrane stacks called cisternae that are involved in the transport of lipids and proteins in the secretory pathway and are important for Golgi-microtubule interaction. Golgin 160, also known as GOLGA3 (golgin subfamily A member 3), MEA-2 or GCP170, is a 1,498 amino acid protein that localizes to both the cytoplasm and to the Golgi apparatus and contains a series of coiled-coil domains. Expressed in a variety of tissues, including heart, liver, testis, kidney, lung and salivary gland, golgin 160 functions as a homodimer that interacts with GOLGA7 and is thought to be involved in maintaining Golgi structure and may play a role in nuclear transport and Golgi apparatus localization. Multiple isoforms of golgin 160 exist due to alternative splicing events.

REFERENCES

1. Fritzler, M.J., et al. 1993. Molecular characterization of two human auto-antigens: unique cDNAs encoding 95- and 160-kD proteins of a putative family in the Golgi complex. *J. Exp. Med.* 178: 49-62.
2. Hicks, S.W. and Machamer, C.E. 2002. The NH₂-terminal domain of golgin 160 contains both Golgi and nuclear targeting information. *J. Biol. Chem.* 277: 35833-35839.

CHROMOSOMAL LOCATION

Genetic locus: GOLGA3 (human) mapping to 12q24.33; Golga3 (mouse) mapping to 5 F.

SOURCE

golgin 160 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of golgin 160 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-79966 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

golgin 160 (N-16) is recommended for detection of golgin 160 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).

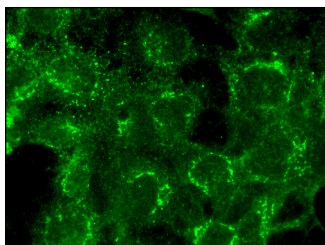
Suitable for use as control antibody for golgin 160 siRNA (h): sc-75160, golgin 160 siRNA (m): sc-75161, golgin 160 shRNA Plasmid (h): sc-75160-SH, golgin 160 shRNA Plasmid (m): sc-75161-SH, golgin 160 shRNA (h) Lentiviral Particles: sc-75160-V and golgin 160 shRNA (m) Lentiviral Particles: sc-75161-V.

Molecular Weight of golgin 160: 160 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.

DATA



golgin 160 (N-16): sc-79966. Immunofluorescence staining of formalin-fixed HepG2 cells showing Golgi apparatus, cytoplasmic and nuclear localization.

SELECT PRODUCT CITATIONS

1. Clarke, J.H., et al. 2009. Distribution and neuronal expression of phosphatidylinositol phosphate kinase Ily in the mouse brain. *J. Comp. Neurol.* 517: 296-312.

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.



Try **golgin 160 (C-8): sc-374596**, our highly recommended monoclonal alternative to golgin 160 (N-16).