

# golgin 160 (C-8): sc-374596

## 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 autoantigens: 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., et al. 2002. The NH<sub>2</sub>-terminal domain of golgin-160 contains both Golgi and nuclear targeting information. *J. Biol. Chem.* 277: 35833-35839.
3. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 602581. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Ohta, E., et al. 2003. Identification and characterization of GCP16, a novel acylated Golgi protein that interacts with GCP170. *J. Biol. Chem.* 278: 51957-51967.
5. Hicks, S.W., et al. 2005. Isoform-specific interaction of golgin-160 with the Golgi-associated protein PIST. *J. Biol. Chem.* 280: 28944-28951.

## CHROMOSOMAL LOCATION

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

## SOURCE

golgin 160 (C-8) is a mouse monoclonal antibody raised against amino acids 371-670 mapping within an internal region of golgin 160 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

golgin 160 (C-8) is available conjugated to agarose (sc-374596 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374596 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-374596 PE), fluorescein (sc-374596 FITC), Alexa Fluor® 488 (sc-374596 AF488), Alexa Fluor® 546 (sc-374596 AF546), Alexa Fluor® 594 (sc-374596 AF594) or Alexa Fluor® 647 (sc-374596 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-374596 AF680) or Alexa Fluor® 790 (sc-374596 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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## APPLICATIONS

golgin 160 (C-8) is recommended for detection of golgin 160 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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.

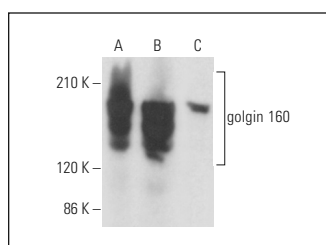
Molecular Weight of golgin 160: 160 kDa.

Positive Controls: U-87 MG cell lysate: sc-2411, HT-1080 whole cell lysate: sc-364183 or NIH/3T3 whole cell lysate: sc-2210.

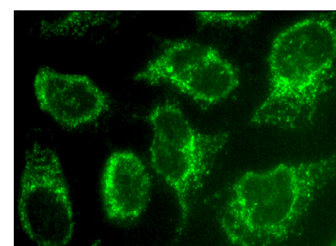
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



golgin 160 (C-8): sc-374596. Western blot analysis of golgin 160 expression in U-87 MG (A), HT-1080 (B) and NIH/3T3 (C) whole cell lysates.



golgin 160 (C-8): sc-374596. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

## 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](http://www.scbt.com) for detailed protocols and support products.