

golgin 45 (D-14): sc-131523

BACKGROUND

Golgin 45, also known as JEM-1 or basic leucine-zipper nuclear factor 1, is a 400 amino acid protein that localizes to the lumen of the Golgi apparatus. The primary function of golgin 45 is to maintain normal Golgi structure and to facilitate protein transport from the endoplasmic reticulum to the cell surface. The latter process is regulated primarily through the interaction of golgin 45 and GRASP55, which together form a Rab 2 effector complex. Excluding formation of a Rab 2 complex, golgin 45 does not interact with any other Golgi Rab proteins. Golgin 45 is expressed as two isoforms, one of which localizes to the nucleus and is thought to function as a transcription factor.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: BLZF1 (human) mapping to 1q24.2; Blzf1 (mouse) mapping to 1 H2.2.

SOURCE

golgin 45 (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of golgin 45 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-131523 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

golgin 45 (D-14) is recommended for detection of golgin 45 isoforms 1 and 2 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 45 siRNA (h): sc-88282, golgin 45 siRNA (m): sc-145669, golgin 45 shRNA Plasmid (h): sc-88282-SH, golgin 45 shRNA Plasmid (m): sc-145669-SH, golgin 45 shRNA (h) Lentiviral Particles: sc-88282-V and golgin 45 shRNA (m) Lentiviral Particles: sc-145669-V.

Molecular Weight of golgin 45 isoform 1: 45 kDa.

Molecular Weight of golgin 45 isoform 2: 23 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

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.



Try **golgin 45 (E-3): sc-515193**, our highly recommended monoclonal alternative to golgin 45 (D-14).