

GOLT1B (C-12): sc-138314

BACKGROUND

The Golgi complex plays an essential role in the post-translational modification and sorting of proteins transported from the endoplasmic reticulum (ER). The Golgi stack consists of a distinct *cis* face, or entry face, and a *trans* face, or exit face, which are connected via the *cis*, medial and *trans* Golgi networks. GOLT1B (Golgi transport 1B), also known as putative NF κ B-activating protein 470 or hGOT1a, is a 138 amino acid multi-pass membrane protein that belongs to the GOT1 family. Localizing to Golgi apparatus, GOLT1B may play a role in the fusion of ER-derived transport vesicles to the Golgi complex. The gene encoding GOLT1B maps to human chromosome 12p12.1 and mouse chromosome 6 G₂. Human chromosome 12 encodes over 1,100 genes and comprises approximately 4.5% of the human genome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GOLT1B (human) mapping to 12p12.1; Golt1b (mouse) mapping to 6 G₂.

SOURCE

GOLT1B (C-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of GOLT1B of human origin.

PRODUCT

Each vial contains 100 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-138314 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GOLT1B (C-12) is recommended for detection of GOLT1B of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with GOLT1A.

GOLT1B (C-12) is also recommended for detection of GOLT1B in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for GOLT1B siRNA (h): sc-96011, GOLT1B siRNA (m): sc-145674, GOLT1B shRNA Plasmid (h): sc-96011-SH, GOLT1B shRNA Plasmid (m): sc-145674-SH, GOLT1B shRNA (h) Lentiviral Particles: sc-96011-V and GOLT1B shRNA (m) Lentiviral Particles: sc-145674-V.

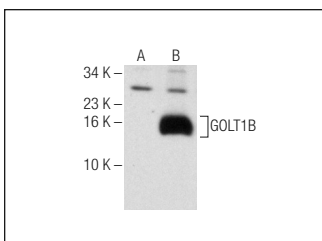
Molecular Weight of GOLT1B: 15 kDa.

Positive Controls: GOLT1B (h) 293T lysates: sc-113047.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



GOLT1B (C-12): sc-138314. Western blot analysis of GOLT1B expression in non-transfected: sc-117752 (A) and human GOLT1B transfected: sc-113047 (B) 293T whole cell lysates.

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.