

TMED7 (G-17): sc-248846

BACKGROUND

TMED7 (transmembrane emp24 domain trafficking protein 7), also known as CGI-109, is a 224 amino acid protein that is a member of the EMP24/GP25L family. Like most members of this family, TMED7 is a single-pass type I membrane protein containing one GOLD domain. The GOLD (Golgi dynamics) domain is a region of about 90 to 150 amino acids that mediates protein-protein interactions. The GOLD domain interacts with lipid, sterol or fatty acid-domains as well as with RUN domains, which interact with cytoskeletal filaments of membrane proteins. TMED7 is encoded by a gene located on human chromosome 5q22.3. Chromosome 5 makes up approximately 6% of the human genome and contains 181 million base pairs, which encode 1,000 genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TMED7 (human) mapping to 5q22.3; Tmed7 (mouse) mapping to 18 C.

SOURCE

TMED7 (G-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TMED7 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-248846 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TMED7 (G-17) is recommended for detection of TMED7 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); non cross-reactive with other TMED family members.

TMED7 (G-17) is also recommended for detection of TMED7 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TMED7 siRNA (h): sc-91679, TMED7 shRNA Plasmid (h): sc-91679-SH and TMED7 shRNA (h) Lentiviral Particles: sc-91679-V.

Molecular Weight of TMED7: 25 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.