

TMED1 (L-13): sc-169607

BACKGROUND

TMED1 (transmembrane emp24 protein transport domain containing 1), also known as ST2L, II1r1I or IL1RL1LG, is a 227 amino acid member of the EMP24/GP25L family. Widely expressed, TMED1 is a single-pass type I membrane protein containing one GOLD domain. Associated with membrane proteins, 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 the RUN domain, which interacts with cytoskeletal filaments, of membrane proteins. Suggested to play a role in protein trafficking, TMED1 is encoded by a gene located on human chromosome 19, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TMED1 (human) mapping to 19p13.2; Tmed1 (mouse) mapping to 9 A3.

SOURCE

TMED1 (L-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal extracellular domain of TMED1 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-169607 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TMED1 (L-13) is recommended for detection of TMED1 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.

TMED1 (L-13) is also recommended for detection of TMED1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TMED1 siRNA (h): sc-97103, TMED1 siRNA (m): sc-154331, TMED1 shRNA Plasmid (h): sc-97103-SH, TMED1 shRNA Plasmid (m): sc-154331-SH, TMED1 shRNA (h) Lentiviral Particles: sc-97103-V and TMED1 shRNA (m) Lentiviral Particles: sc-154331-V.

Molecular Weight of TMED1: 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.