SANTA CRUZ BIOTECHNOLOGY, INC.

# TMED1 (D-15): sc-169605

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*The Power to Question*

## BACKGROUND

TMED1 (transmembrane emp24 protein transport domain containing 1), also known as ST2L, Il1rl1l 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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5. Callebaut, I., de Gunzburg, J., Goud, B. and Mornon, J.P. 2001. RUN domains: a new family of domains involved in Ras-like GTPase signaling. Trends Biochem. Sci. 26: 79-83.
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## CHROMOSOMAL LOCATION

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

## SOURCE

TMED1 (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an 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-169605 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TMED1 (D-15) 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.

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.