

TMED2 (H-108): sc-292002

BACKGROUND

TMED2 (transmembrane emp24 domain trafficking protein 2), also known as P24A or RNP24, is a 201 amino acid protein that is a member of the EMP24/GP25L family. Like most members of this family, TMED2 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. TMED2 is thought to inhibit GTPase-activating activity of ARFGAP1 and may have a role in the budding of coatamer-coated and other species of coated vesicles. As part of a complex composed of SURF-4 and TMP21, TMED2 binds to cargo molecules to collect them into budding vesicles.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TMED2 (human) mapping to 12q24.31; Tmed2 (mouse) mapping to 5 F.

SOURCE

TMED2 (H-108) is a rabbit polyclonal antibody raised against amino acids 94-201 mapping at the C-terminus of TMED2 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.

APPLICATIONS

TMED2 (H-108) is recommended for detection of TMED2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

TMED2 (H-108) is also recommended for detection of TMED2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for TMED2 siRNA (h): sc-95717, TMED2 siRNA (m): sc-154332, TMED2 shRNA Plasmid (h): sc-95717-SH, TMED2 shRNA Plasmid (m): sc-154332-SH, TMED2 shRNA (h) Lentiviral Particles: sc-95717-V and TMED2 shRNA (m) Lentiviral Particles: sc-154332-V.

Molecular Weight (predicted) of TMED2: 23 kDa.

Molecular Weight (observed) of TMED2: 21 kDa.

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.

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.


 MONOS
 Satisfaction
 Guaranteed

Try **TMED2 (E-12): sc-376458** or **TMED2 (A-8): sc-376033**, our highly recommended monoclonal alternatives to TMED2 (H-108).