Datasheet for ABIN7270943

# anti-TMED2 antibody (AA 60-170)

3 Images

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## Overview

| | |
|---|---|
| Quantity: | 100 µL |
| Target: | TMED2 |
| Binding Specificity: | AA 60-170 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This TMED2 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunofluorescence (IF) |

## Product Details

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|---|---|
| Purpose: | TMED2 Rabbit pAb |
| Immunogen: | Recombinant fusion protein containing a sequence corresponding to amino acids 60-170 of human TMED2 (NP_006806.1). |
| Sequence: | EITGPDNKGI YKGDRESSGK YTFAAHMDGT YKFCFSNRMS TMTPKIVMFT IDIGEAPKGQ DMETEAHQNK LEEMINELAV AMTAVKHEQE YMEVRERIHR AINDNTNSRV V |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Rat |
| Characteristics: | Polyclonal Antibodies |
| Purification: | Affinity purification |

## Target Details

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|---|---|
| Target: | TMED2 |
| Alternative Name: | TMED2 (TMED2 Products) |
| Background: | Involved in vesicular protein trafficking. Mainly functions in the early secretory pathway but also in post-Golgi membranes. Thought to act as cargo receptor at the lumenal side for incorporation of secretory cargo molecules into transport vesicles and to be involved in vesicle coat formation at the cytoplasmic side. In COPII vesicle-mediated anterograde transport involved in the transport of GPI-anchored proteins and proposed to act together with TMED10 as their cargo receptor, the function specifically implies SEC24C and SEC24D of the COPII vesicle coat and lipid raft-like microdomains of the ER. Recognizes GPI anchors structural remodeled in the ER by PGAP1 and MPPE1. In COPI vesicle-mediated retrograde transport inhibits the GTPase-activating activity of ARFGAP1 towards ARF1 thus preventing immature uncoating and allowing cargo selection to take place. Involved in trafficking of G protein-coupled receptors (GPCRs. Regulates F2RL1, OPRM1 and P2RY4 exocytic trafficking from the Golgi to the plasma membrane thus contributing to receptor resensitization. Facilitates CASR maturation and stabilization in the early secretory pathway and increases CASR plasma membrane targeting. Proposed to be involved in organization of intracellular membranes such as the maintenance of the Golgi apparatus. May also play a role in the biosynthesis of secreted cargo such as eventual processing.,P24A,RNP24,p24,p24b1,p24beta1,TMED2,Signal Transduction,Cell Biology & Developmental Biology,TMED2 |
| Molecular Weight: | 22kDa |
| Gene ID: | 10959 |
| UniProt: | Q15363 |

## Application Details

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|---|---|
| Application Notes: | WB,1:500 - 1:2000,IF,1:50 - 1:200 |
| Restrictions: | For Research Use only |

## Handling

| | |
|---|---|
| Format: | Liquid |
| Buffer: | PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which |

## Handling

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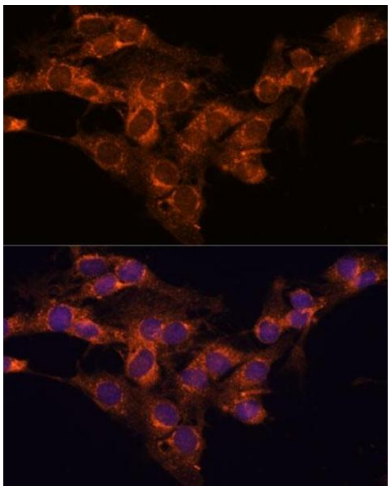
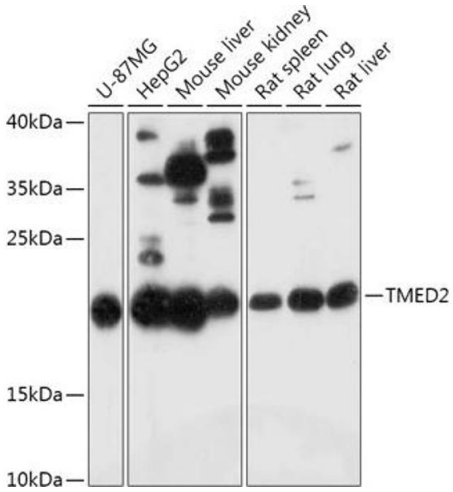
|---|---|
| | should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20°C. Avoid freeze / thaw cycles. |

## Images



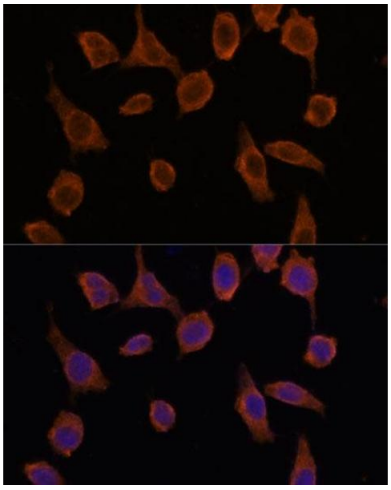
**Immunofluorescence**

**Image 1.** Immunofluorescence analysis of C6 cells using TMED2 antibody (ABIN7270943) at dilution of 1:100. Blue: DAPI for nuclear staining.




**Western Blotting**

**Image 2.** Western blot analysis of extracts of various cell lines, using TMED2 antibody (ABIN7270943) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 3 min.



**Immunofluorescence**

**Image 3.** Immunofluorescence analysis of L929 cells using TMED2 antibody (ABIN7270943) at dilution of 1:100. Blue: DAPI for nuclear staining.