

For Research Use Only

# TMCO1 Polyclonal antibody

Catalog Number: 27757-1-AP **1 Publications**



## Basic Information

<b>Catalog Number:</b> 27757-1-AP	<b>GenBank Accession Number:</b> NM_019026	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 54499	<b>Recommended Dilutions:</b> WB 1:200-1:1000
<b>Source:</b> Rabbit	<b>Full Name:</b> transmembrane and coiled-coil domains 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 21 kDa	
<b>Immunogen Catalog Number:</b> AG26278	<b>Observed MW:</b> 21 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : A549 cells, L02 cells
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human	

## Background Information

TMCO1, also known as TMCC4, PNAS-10, and PNAS-136, is a 188 amino acid protein, which is widely expressed in adult and fetal tissues, with higher levels in thymus, prostate, testis and small intestine and lower levels in brain, placenta, lung and kidney (PubMed:10393320, PubMed:20018682). TMCO1 as a Calcium-selective channel is required to prevent calcium stores from overflowing, thereby playing a key role in calcium homeostasis (PubMed:27212239). In response to endoplasmic reticulum overloading, TMCO1, assembles into a homotetramer, forming a functional calcium-selective channel, regulating the calcium content in endoplasmic reticulum store (PubMed:27212239).

## Notable Publications

Author	Pubmed ID	Journal	Application
Katharine R Page	38076791	bioRxiv	WB

## Storage

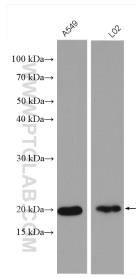
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27757-1-AP (TMCO1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.