

For Research Use Only

# TMCO1 Recombinant monoclonal antibody, PBS Only

Catalog Number: 86440-1-PBS



## Basic Information

<b>Catalog Number:</b> 86440-1-PBS	<b>GenBank Accession Number:</b> NM_019026	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 54499	<b>CloneNo.:</b> 251064F7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9UM00	
<b>Isotype:</b> IgG	<b>Full Name:</b> transmembrane and coiled-coil domains 1	
<b>Immunogen Catalog Number:</b> AG26278	<b>Calculated MW:</b> 21 kDa	
	<b>Observed MW:</b> 20 kDa	

## Applications

**Tested Applications:**  
WB, IHC, Indirect ELISA

**Species Specificity:**  
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).

## Storage

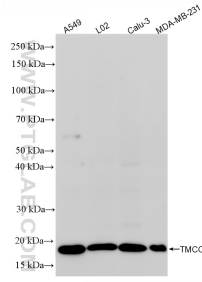
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

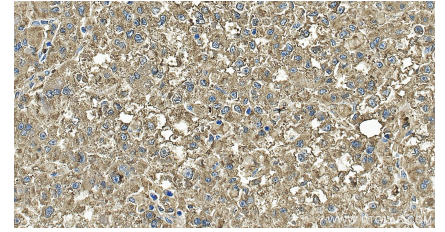
## Selected Validation Data



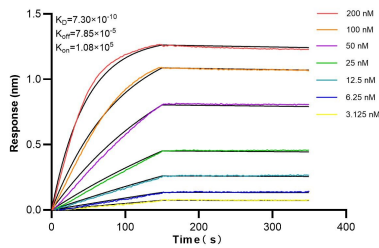
Various lysates were subjected to SDS PAGE followed by western blot with 86440-1-RR (TMCO1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86440-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 86440-1-RR (TMCO1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86440-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 86440-1-RR (TMCO1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86440-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 86440-1-RR against Human TMCO1 were performed. The affinity constant is 0.73 nM.