

For Research Use Only

TMCO1 Recombinant monoclonal antibody

Catalog Number: 86440-1-RR



Basic Information

Catalog Number: 86440-1-RR	GenBank Accession Number: NM_019026	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 54499	CloneNo.: 251064F7
Isotype: IgG	UNIPROT ID: Q9UM00	Recommended Dilutions: WB: 1:500-1:2000 IHC: 1:500-1:2000
Immunogen Catalog Number: AG26278	Full Name: transmembrane and coiled-coil domains 1	
	Calculated MW: 21 kDa	
	Observed MW: 20 kDa	

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A549 cells, L02 cells, Calu-3 cells, MDA-MB-231 cells

IHC : human liver cancer tissue,

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 overfilling, 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 -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

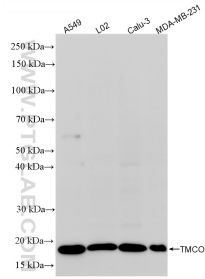
T: 4006900926

E: Proteintech-CN@ptglab.com

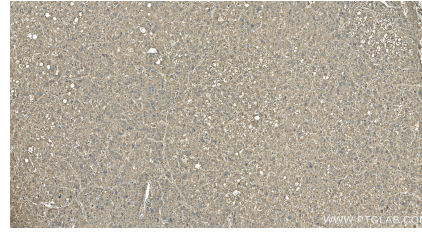
W: ptgcn.com

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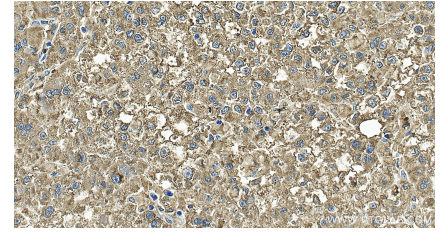
Selected Validation Data



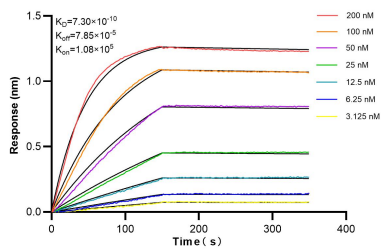
Various lysates were subjected to SDS PAGE followed by western blot with 86440-1-RR (TMCO1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).



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