

For Research Use Only

TMCO1 Polyclonal antibody

Catalog Number: 27757-1-AP

2 Publications



Basic Information

Catalog Number:

27757-1-AP

Size:

150ul, Concentration: 900 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG26278

GenBank Accession Number:

NM_019026

GeneID (NCBI):

54499

UNIPROT ID:

Q9UM00

Full Name:

transmembrane and coiled-coil domains 1

Calculated MW:

21 kDa

Observed MW:

21 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : A549 cells, L02 cells

IHC : human intrahepatic cholangiocarcinoma tissue,

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

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Jingting Dong	39479348	Open Life Sci	WB, IHC, IF
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

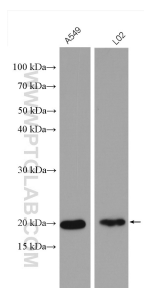
For technical support and original validation data for this product please contact:

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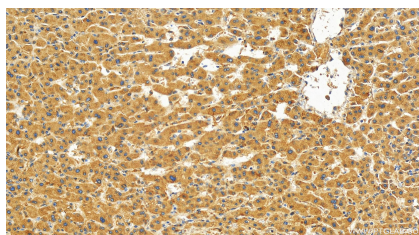
E: proteintech@ptglab.com
W: ptglab.com

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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.



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 27757-1-AP (TMCO1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).