For Research Use Only

# TMEM41B Polyclonal antibody

Catalog Number:29270-1-AP Featured Product 5 Publications

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## Basic Information

Catalog Number:
29270-1-AP

Size:
500 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG30810

GenBank Accession Number:
BC035034

GeneID (NCBI):
440026

UNIPROT ID:
Q5BJD5

Full Name:
transmembrane protein 41B

Observed MW:
22-28 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:50-1:500

## Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
Human, Mouse

Cited Species:
human, mouse, pig

***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, HeLa cells

IHC : mouse lung tissue, mouse testis tissue, human lung tissue

## Background Information

Transmembrane protein 41B (TMEM41B), also known as Stasimon, is a major target of survival motor neuron (SMN)-dependent U12 splicing and has been identified as a protein required for motor circuit function (PMID: 23063131). TMEM41B localizes to the endoplasmic reticulum. It is involved in autophagosome biogenesis and lipid mobilization (PMID: 30126924). TMEM41B has been shown to be essential for mouse embryonic development (PMID: 30352685). Additionally, genome-scale CRISPR knockout screens reveal that TMEM41B is required for infection of flavivirus and coronavirus, including SARS-CoV-2 (PMID: 33052348; 33052332). Alternative splicing results in three transcript variants encoding distinct isoforms.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Dong Huang | 34015269 | Cell Metab | WB,IF |
| Xiuying Liang | 34944635 | Biomedicines | IHC |
| Lingzhi Wu | 35496801 | STAR Protoc | WB |

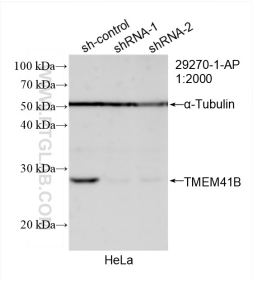
## Storage

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

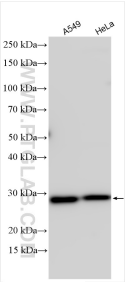


**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

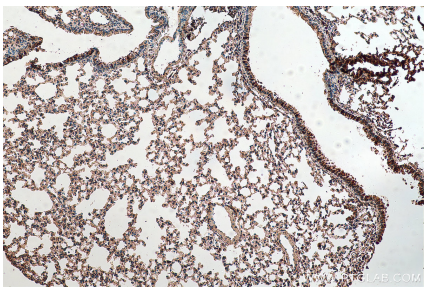
## Selected Validation Data



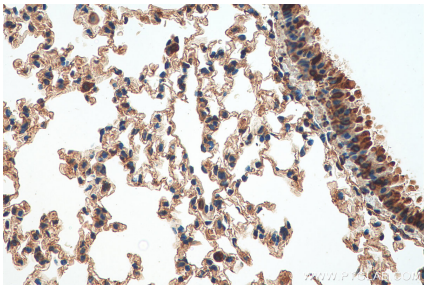

WB result of TMEM41B antibody (29270-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TMEM41B transfected HeLa cells.




Various lysates were subjected to SDS PAGE followed by western blot with 29270-1-AP (TMEM41B antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 29270-1-AP (TMEM41B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 29270-1-AP (TMEM41B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).