

For Research Use Only

# TMEM38B Polyclonal antibody

Catalog Number: 19919-1-AP

Featured Product



## Basic Information

### Catalog Number:

19919-1-AP

### Size:

550 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13835

### GenBank Accession Number:

BC000049

### GeneID (NCBI):

55151

### UNIPROT ID:

Q9NVV0

### Full Name:

transmembrane protein 38B

### Calculated MW:

291 aa, 33 kDa

### Observed MW:

28 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Species Specificity:

human, mouse, rat

**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 : HeLa cells, MCF-7 cells

IHC : mouse testis tissue, human kidney tissue

IF/ICC : HepG2 cells,

## Background Information

TMEM38B encodes endoplasmic reticulum membrane monovalent cation-specific channel which is involved in the release of calcium (Ca<sup>2+</sup>) from intracellular stores. TMEM38B, also known as TRIC-B, is one of the two trimeric intracellular cation (TRIC) channels. TRIC-B deficiency causes bone disease due to defective Ca<sup>2+</sup> release and signaling in the bone cells. (PMID: 34036147, PMID: 39385871)

## 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

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

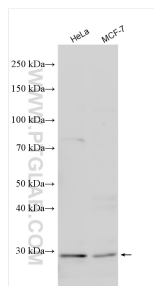
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

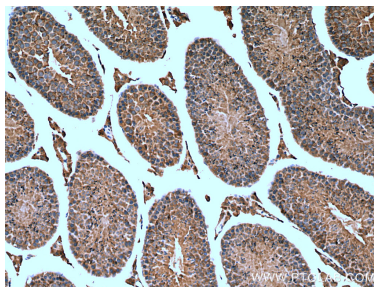
W: [ptgcn.com](http://ptgcn.com)

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

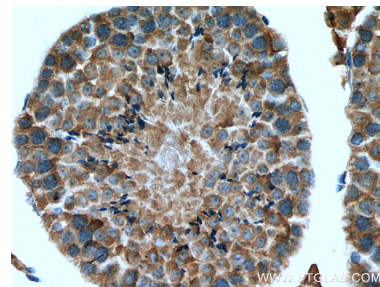
## Selected Validation Data



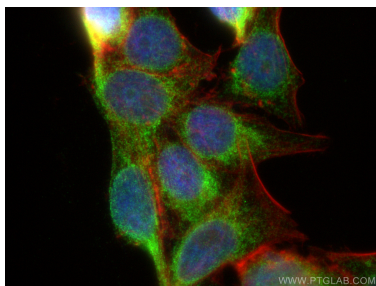
Various lysates were subjected to SDS PAGE followed by western blot with 19919-1-AP (TMEM38B antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



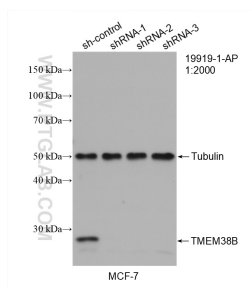
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 19919-1-AP (TMEM38B antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 19919-1-AP (TMEM38B antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TMEM38B antibody (19919-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).



WB result of TMEM38B antibody (19919-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TMEM38B transfected MCF-7 cells.