

For Research Use Only

# TMEM70 Polyclonal antibody

Catalog Number: 20388-1-AP

Featured Product

5 Publications



## Basic Information

### Catalog Number:

20388-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG14226

### GenBank Accession Number:

BC002748

### GeneID (NCBI):

54968

### UNIPROT ID:

Q9BUB7

### Full Name:

transmembrane protein 70

### Calculated MW:

260 aa, 29 kDa

### Observed MW:

18 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

WB : A2780 cells, Jurkat cells

IHC : human liver 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

TMEM70 belongs to the TMEM70 family. It is involved in biogenesis of mitochondrial ATP synthase. Defects in TMEM70 are a cause of mitochondrial encephalomyopathy neonatal due to ATP synthase deficiency (MT-ATPSD). A publication(PMID:21147908) identifies that TMEM70 gene defect as a pan-ethnic disorder and further redefines it as the most common cause of nuclear-origin ATP synthase deficiency.

## Notable Publications

Author	Pubmed ID	Journal	Application
Uwe Richter	30683687	Life Sci Alliance	WB
Hana Kratochvílová	24576557	Mitochondrion	WB
Daria Diodato	24740313	JIMD Rep	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

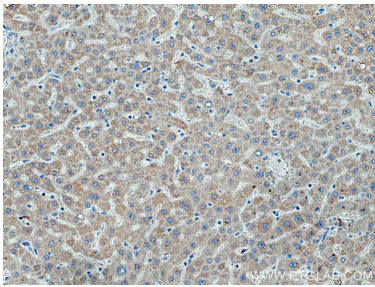
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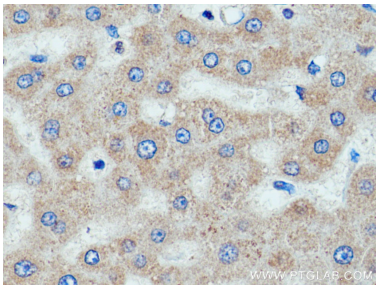
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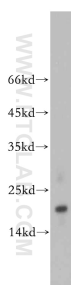
Selected Validation Data



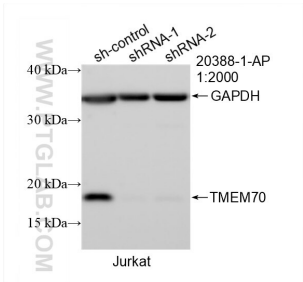
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 20388-1-AP (TMEM70 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 20388-1-AP (TMEM70 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



A2780 cells were subjected to SDS PAGE followed by western blot with 20388-1-AP (TMEM70 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



WB result of TMEM70 antibody (20388-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TMEM70 transfected Jurkat cells.