

For Research Use Only

# TMEM70 Monoclonal antibody

Catalog Number: 60195-1-Ig

Featured Product

1 Publications



## Basic Information

<b>Catalog Number:</b> 60195-1-Ig	<b>GenBank Accession Number:</b> BC002748	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 54968	<b>CloneNo.:</b> 2C11C3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9BUB7	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:20-1:200
<b>Isotype:</b> IgG2b	<b>Full Name:</b> transmembrane protein 70	
<b>Immunogen Catalog Number:</b> AG16947	<b>Calculated MW:</b> 260 aa, 29 kDa	
	<b>Observed MW:</b> 18 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : A2780 cells, HeLa cells IHC : human liver tissue, human pancreas tissue
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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) identified TMEM70 gene defect as a pan-ethnic disorder and further redefined it as the most common cause of nuclear-origin ATP synthase deficiency.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hana Kratochvílová	24576557	Mitochondrion	WB

## Storage

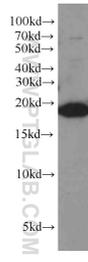
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

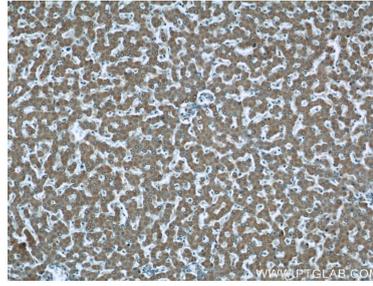
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

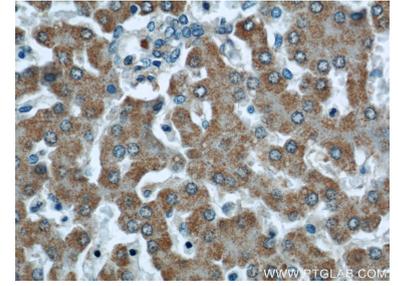
## Selected Validation Data



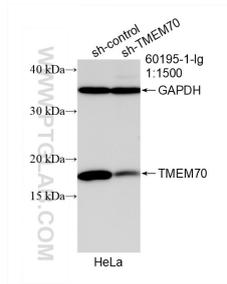
A2780 cells were subjected to SDS PAGE followed by western blot with 60195-1-Ig (TMEM70 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver using 60195-1-Ig(TMEM70 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver using 60195-1-Ig(TMEM70 antibody) at dilution of 1:50 (under 40x lens).



WB result of TMEM70 antibody (60195-1-Ig; 1:1500; incubated at room temperature for 1.5 hours) with sh-Control and sh-TMEM70 transfected HeLa cells.