

For Research Use Only

TMEM70 Polyclonal antibody

Catalog Number: 20388-1-AP

Featured Product

4 Publications



Basic Information

| | | |
|--|---|---|
| Catalog Number: 20388-1-AP | GenBank Accession Number: BC002748 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 400 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 54968 | Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500 |
| Source: Rabbit | Full Name: transmembrane protein 70 | |
| Isotype: IgG | Calculated MW: 260 aa, 29 kDa | |
| Immunogen Catalog Number: AG14226 | Observed MW: 18 kDa | |

Applications

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|--|--|
| Tested Applications: IHC, WB, ELISA | Positive Controls: WB : A2780 cells, Jurkat cells IHC : human liver tissue, |
| Cited Applications: WB | |
| Species Specificity: human, mouse | |
| Cited Species: human | |
| 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

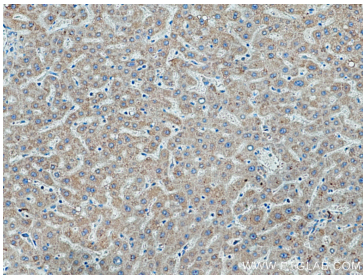
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

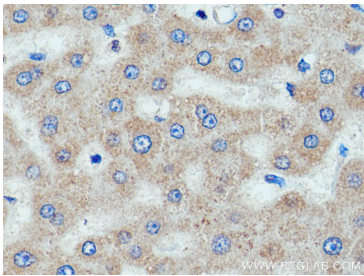
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

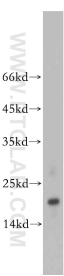
Selected Validation Data



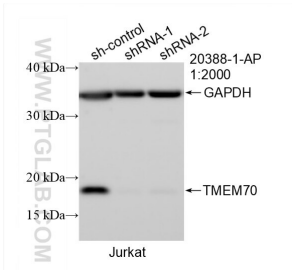
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 20388-1-AP (TMEM70 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.