

ATP5F1 Polyclonal antibody

Catalog Number: 15999-1-AP

21 Publications

Basic Information

Catalog Number:

15999-1-AP

Size:

350 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8571

GenBank Accession Number:

BC005366

GeneID (NCBI):

515

UNIPROT ID:

P24539

Full Name:

ATP synthase, H⁺ transporting, mitochondrial F₀ complex, subunit B1

Calculated MW:

256 aa, 29 kDa

Observed MW:

25-30 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:100-1:400

IF 1:10-1:100

Applications

Tested Applications:

FC, IF/ICC, IHC, WB, ELISA

Cited Applications:

CoIP, IF, IHC, WB

Species Specificity:

human, mouse

Cited Species:

human, rat, mouse

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: mouse heart tissue, mouse skeletal muscle tissue, mouse liver tissue

IHC: human liver tissue, human brain tissue, human heart tissue, human kidney tissue, human skin tissue, human testis tissue

IF: HeLa cells,

Background Information

ATP5F1(ATP synthase subunit b) belongs to the eukaryotic ATPase B chain family. The ATP5F1 gene encodes subunit B of the mitochondrial ATP synthase F₀ unit, which contains 214-amino acid with a 42-amino acid import signal(PMID:1831354). Mitochondrial membrane ATP synthase(F₁F₀ ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------|-----------|-----------------------|-------------|
| Zhimin Zeng | 36160705 | Oxid Med Cell Longev | WB,CoIP |
| Yuehong Wang | 32918657 | Cardiovasc Drugs Ther | WB |
| Minghua Yang | 36309482 | Cell Death Dis | 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

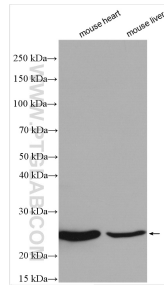
For technical support and original validation data for this product please contact:

T: 4006900926

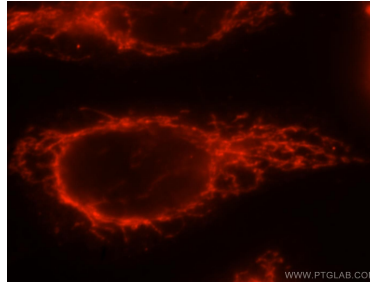
E: Proteintech-CN@ptglab.comW: ptgcn.com

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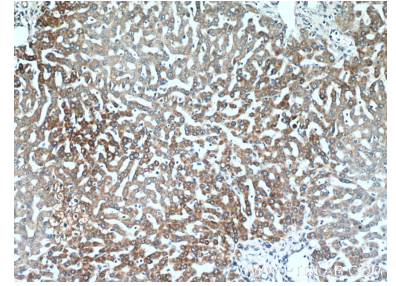
Selected Validation Data



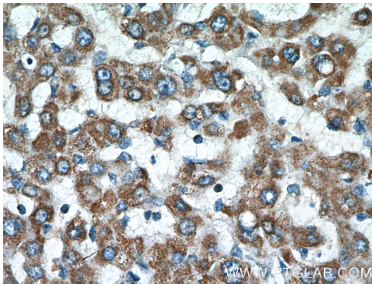
Various lysates were subjected to SDS PAGE followed by western blot with 15999-1-AP (ATP5F1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



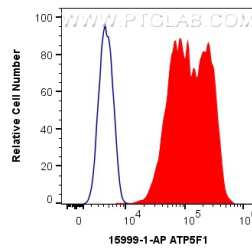
Immunofluorescent analysis of HeLa cells, using ATP5F1 antibody 15999-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15999-1-AP (ATP5F1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15999-1-AP (ATP5F1 Antibody) at dilution of 1:200 (under 40x lens).



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human ATP5F1 (15999-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).