For Research Use Only

ATP5H Polyclonal ANTIBODY

Catalog Number:17589-1-AP

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
17589-1-AP

Size:
150UL , Concentration: 267 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG11429

GenBank Accession Number:
BC032245

GeneID (NCBI):
10476

Full Name:
ATP synthase, H+ transporting, mitochondrial F0 complex, subunit d

Calculated MW:
137 aa, 16 kDa

Observed MW:
19-22 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:6000
IP 0.5-4.0 ug for IP and 1:1000-1:4000 for WB
IHC 1:20-1:200
IF 1:10-1:100

Applications

Tested Applications:
IF, IHC, IP, WB, 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 : Jurkat cells, human brain tissue, human liver tissue, mouse brain tissue, mouse liver tissue, mouse ovary tissue, rat brain tissue, rat liver tissue

IP : mouse liver tissue,

IHC : human lung cancer tissue, human pancreas tissue

IF : HepG2 cells,

Background Information

Mitochondrial membrane ATP synthase (F1-Fo 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. It is composed of the soluble catalytic core, F1, and the membrane-spanning component and Fo, which comprises the proton channel. The Fo seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). ATP5H gene encodes ATP synthase subunit d of the Fo complex.

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: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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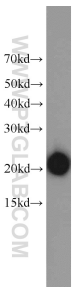
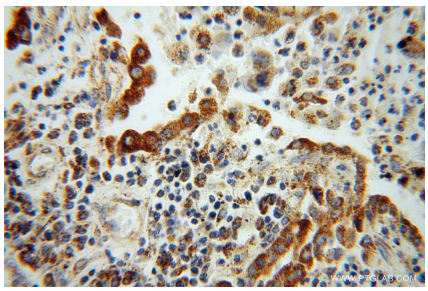
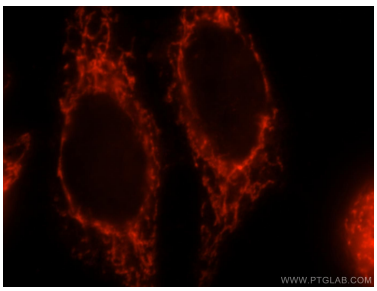
Selected Validation Data



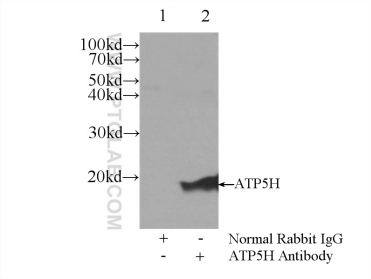
Jurkat cells were subjected to SDS PAGE followed by western blot with 17589-1-AP (ATP5H antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer using 17589-1-AP (ATP5H antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using ATP5H antibody 17589-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP Result of anti-ATP5H (IP:17589-1-AP, 3ug; Detection:17589-1-AP 1:2000) with mouse liver tissue lysate 6000ug.