

For Research Use Only

ATP5H Polyclonal antibody

Catalog Number: 17589-1-AP

6 Publications



Basic Information

Catalog Number:

17589-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG11429

GenBank Accession Number:

BC032245

GeneID (NCBI):

10476

UNIPROT ID:

O75947

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 1:2000-1:12000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : Jurkat cells, mouse liver tissue, rat brain tissue, rat liver tissue

IP : mouse liver tissue,

IHC : human lung cancer tissue, human pancreas tissue

IF/ICC : HepG2 cells,

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

Mitochondrial membrane ATP synthase (F₁-F₀ 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 F₀, which comprises the proton channel. The F₀ seems to have nine subunits (a, b, c, d, e, f, g, F₆ and 8). ATP5H gene encodes ATP synthase subunit d of the F₀ complex.

Notable Publications

Author	Pubmed ID	Journal	Application
Liangjun Xia	35401830	Theranostics	WB
Xia Feng	35867854	Brain	WB
Margalida A Frau-Méndez	27338255	Brain Pathol	IHC

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

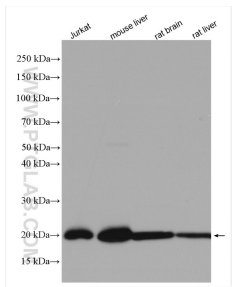
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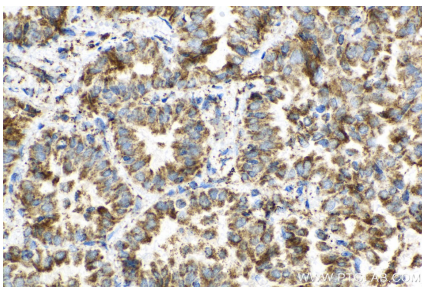
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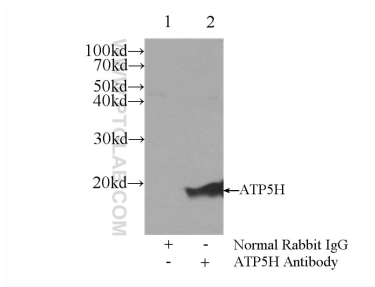
Selected Validation Data



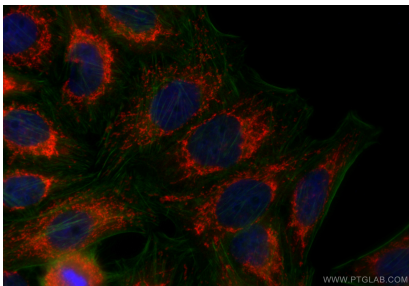
Jurkat cells were subjected to SDS PAGE followed by western blot with 17589-1-AP (ATP5H antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 17589-1-AP (ATP5H antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using ATP5H antibody (17589-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488-Phalloidin (green).