For Research Use Only

ATP5I Polyclonal antibody

Catalog Number:16483-1-AP 11 Publications

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Basic Information

Catalog Number:
16483-1-AP

Size:
150ul , Concentration: 550 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9605

GenBank Accession Number:
BC003679

GeneID (NCBI):
521

UNIPROT ID:
P56385

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

Calculated MW:
69 aa, 8 kDa

Observed MW:
8 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, chicken

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 : HepG2 cells, mouse liver tissue

IHC : human liver cancer tissue,

IF/ICC : HeLa cells,

Background Information

ATP5I(ATP synthase subunit e) is also named as ATP5K and belongs to the ATPase e subunit family. The ATP5I gene encodes the e subunit of the mitochondrial ATP synthase Fo complex. 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. Antisense ATP5I in a human HCC cell line inhibited cell growth suggesting that ATP5I acts through the MAP kinase pathway(PMID:11939412).

Notable Publications

Author	Pubmed ID	Journal	Application
Christin A Albus	34681149	Biology (Basel)	IF
Víctor Llombart	27888142	J Proteomics	WB
Tetsuro Matsuhashi	28579242	EBioMedicine	

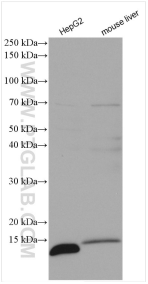
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

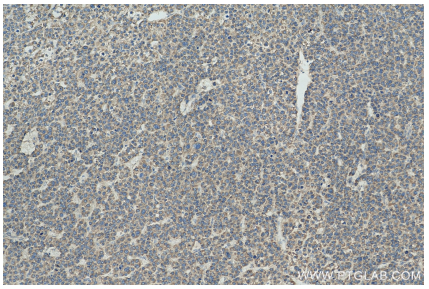
*** 20ul sizes contain 0.1% BSA

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

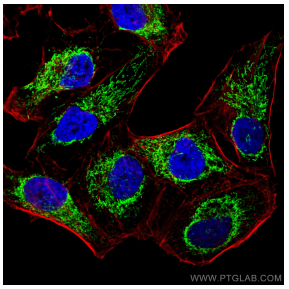
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16483-1-AP (ATP5I antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 16483-1-AP (ATP5I antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ATP5I antibody (16483-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red).