

For Research Use Only

ATP5O Polyclonal antibody

Catalog Number: 10994-1-AP **4 Publications**



Basic Information

Catalog Number: 10994-1-AP	GenBank Accession Number: BC021233	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 413 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 539	Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500 IF 1:20-1:200
Source: Rabbit	Full Name: ATP synthase, H ⁺ transporting, mitochondrial F1 complex, O subunit	
Isotype: IgG	Calculated MW: 23 kDa	
Immunogen Catalog Number: AG1458	Observed MW: 23-25 kDa	

Applications

Tested Applications:
FC, IF, IHC, WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

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

Positive Controls:

WB: A549 cells, mouse placenta tissue, mouse liver tissue, mouse heart tissue, mouse colon tissue, Caco-2 cells, HCT116 cells, HEK-293 cells, HeLa cells, HepG2 cells

IHC: human lung cancer tissue, human colon cancer tissue, human testis tissue, human heart tissue

IF: HepG2 cells,

Background Information

ATP5O(ATP synthase subunit O, mitochondrial) is also named as ATPO, OSCP and belongs to the ATPase delta chain family. The gene encodes the oligomycin sensitivity-conferring protein (OSCP) of ATP synthase. The predicted polypeptide is 213 amino acids long with more than 80% identity to the bovine and mouse homologs and it is expressed at highest levels in muscle and heart by the northern blot(PMID:7490082). Many studies have indicated that mitochondrial dysfunction is central to the development of most age-related human diseases including neurodegenerative diseases, cancer, and type 2 diabetes.

Notable Publications

Author	Pubmed ID	Journal	Application
Yingyan Han	27239088	Dis Markers	WB
Peiyong Li	27313751	Oncol Lett	
David Pacheu-Grau	32061935	J Mol Biol	WB

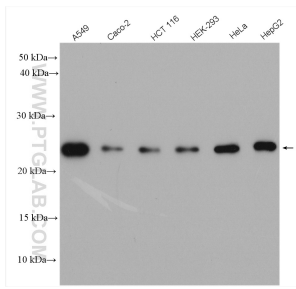
Storage

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

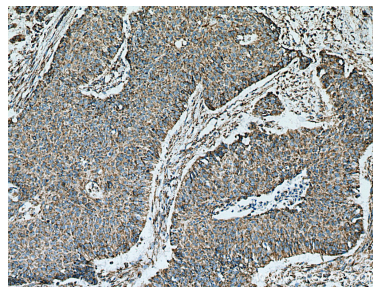
For technical support and original validation data for this product please contact:
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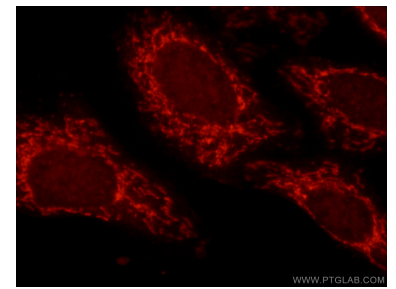
Selected Validation Data



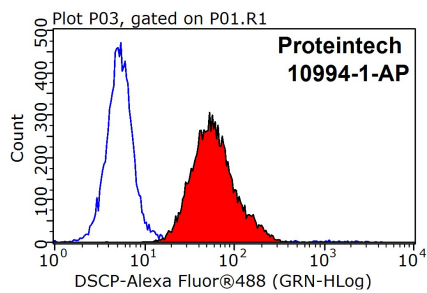
Various lysates were subjected to SDS PAGE followed by western blot with 10994-1-AP (ATP5O antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10994-1-AP (ATP5O antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells, using ATP5O antibody 10994-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



1X10⁶ HepG2 cells were stained with 0.2ug OSCP antibody (10994-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.