

For Research Use Only

ATP5O Polyclonal antibody

Catalog Number: 10994-1-AP

9 Publications



Basic Information

Catalog Number:

10994-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 413 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1458

GenBank Accession Number:

BC021233

GeneID (NCBI):

539

UNIPROT ID:

P48047

Full Name:

ATP synthase, H⁺ transporting, mitochondrial F1 complex, O subunit

Calculated MW:

23 kDa

Observed MW:

23-25 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, 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: 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

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
Robert Wiebringhaus	34885151	Cancers (Basel)	IHC
Yingyan Han	27239088	Dis Markers	WB
Peiyong Li	27313751	Oncol Lett	

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

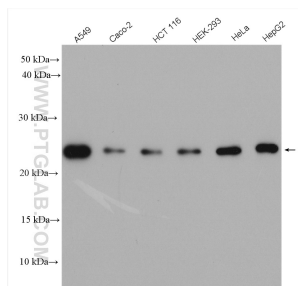
For technical support and original validation data for this product please contact:

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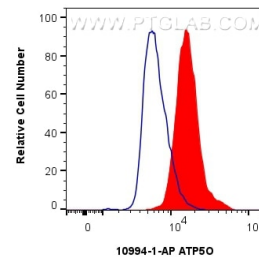
Selected Validation Data



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).



1x10⁶ HepG2 cells were intracellularly stained with 0.4 ug ATP5O Polyclonal antibody (10994-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).