

OSCP Polyclonal Antibody

Catalog number: 10994-1-AP

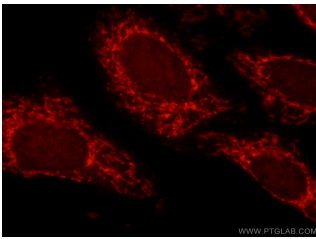
Size: 62 µg/150 µl

Source: Rabbit

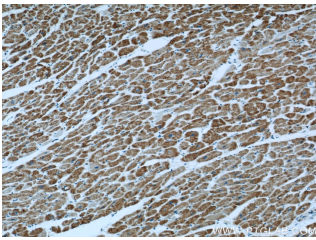
Isotype: IgG

Synonyms:

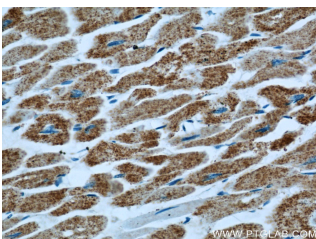
ATP5O; ATP50, ATPO, OSCP



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



Immunohistochemical of paraffin-embedded human heart using 10994-1-AP(ATP5O antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human heart using 10994-1-AP(ATP5O antibody) at dilution of 1:50 (under 40x lens)

Background

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.

Applications

Tested applications:	ELISA, WB, IHC, IF, FC
Species specificity:	Human,Mouse,Rat; other species not tested.
Calculated OSCP MW:	23 kDa
Observed OSCP MW:	23-25kd
Positive WB detected in	HEK-293 cells, human kidney tissue, human placenta tissue, mouse colon tissue, mouse heart tissue, mouse liver tissue, mouse placenta tissue
Positive IHC detected in	Human heart tissue, human colon cancer tissue, human testis tissue
Positive IF detected in	HepG2 cells
Positive FC detected in	HepG2 cells
Recommended dilution:	WB: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:20-1:200 FC: N/A

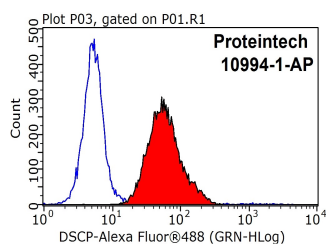
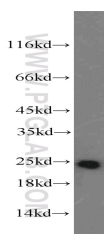
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1458
GenBank accession number:	BC021233
Gene ID (NCBI):	539
Full name:	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, O subunit

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



HEK-293 cells were subjected

1X10⁶ HepG2 cells were

to SDS PAGE followed by western blot with 10994-1-AP(ATP5O antibody) at dilution of 1:1000

stained with 0.2ug ATP5O 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.