À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-ATP5A1

proteintech®
Antibodies | ELISA kits | Proteins
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Numéro de catalogue:14676-1-AP 91 Publications

Informations de base

Numéro de catalogue:
14676-1-AP

Taille:
150ul , Concentration: 400 μg/ml by Nanodrop;

Hôte:
Lapin

Isotype:
IgG

Immunogen Catalog Number:
AG6385

Numéro d'acquisition GenBank:
BC064562

Identification du gène (NCBI):
498

Nom complet:
ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle

MW calculé
60 kDa

MW observés:
50-55 kDa

Méthode de purification:
Purification par affinité contre l'antigène

Dilutions recommandées:
WB 1:5000-1:50000
IHC 1:50-1:500
IF 1:400-1:1600

Applications

Applications testées:
IF, IHC, WB, ELISA

Demandes citées:
CoIP, IF, IHC, IP, WB

Spécificité de l'espèce:
Humain, rat, souris

Espèces citées:
Humain, poisson-zèbre, rat, souris, Hamster

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9.0; (*) À défaut, 'le démasquage de l'antigène peut être 'effectué avec un tampon citrate pH 6,0.

Contrôles positifs:

WB : cellules HeLa, cellules HepG2, cellules Jurkat, échantillons divers, tissu cardiaque de rat, tissu cardiaque de souris, tissu cérébral de rat, tissu cérébral de souris, tissu hépatique de rat, tissu hépatique de souris

IHC : tissu hépatique humain, tissu cérébral de souris, tissu cérébral humain, tissu rénal humain

IF : cellules HeLa, cellules HepG2

Informations générales

The ATP5A1 gene encodes the α subunit of mitochondrial ATP synthase which produces ATP from ADP in the presence of a proton gradient across the membrane. The mitochondrial ATP synthase, also known as Complex V or F1F0 ATP synthase, is a multi-subunit enzyme complex consisting of two functional domains, the F1-containing the catalytic core and the Fo-containing the membrane proton channel. F0 domain has 10 subunits: a,b, c, d, e, f, g, OSCP, A6L, and F6. F1 is composed of subunits α, β, γ , δ, ε, and a loosely attached inhibitor protein IF1. Recently defect in ATP5A1 has been linked to the fatal neonatal mitochondrial encephalopathy. ATP5A1 is localized in the mitochondria and anti-ATP5A1 can be used as the loading control for mitochondrial or Complex V proteins. This antibody recognizes the endogenous ATP5A1 protein in lysates from various cell lines and tissues. The predicted MW of ATP5A1 is 60 kDa, while it undergoes the transit peptide cleavage to become a mature form around 50-55 kDa. Several isoforms of ATP5A1 exist due to the alternative splicing.

Publications notables

Autrice	Pubmed ID	Journal	Application
Yujie Li	31563988	Arch Toxicol	WB
Hiroaki Hirata	32962196	Int J Mol Sci	WB
Liangde Zheng	31525119	Autophagy	WB

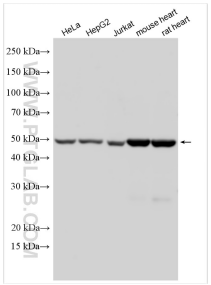
Stockage

Stockage:
Stocker à -20°C. Stable pendant un an après l'expédition.
Tampon de stockage:
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3
L'aliquotage n'est pas nécessaire pour le stockage à -20C

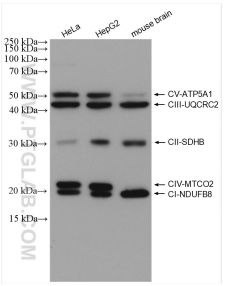
***** Les 20ul contiennent 0,1% de BSA.**

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

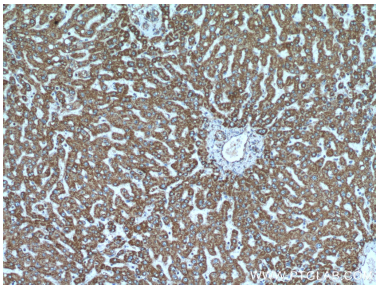
Données de validation sélectionnées



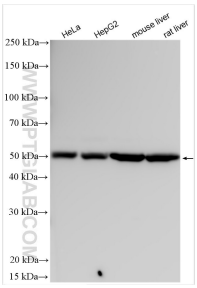
Various lysates were subjected to SDS PAGE followed by western blot with 14676-1-AP (ATP5A1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



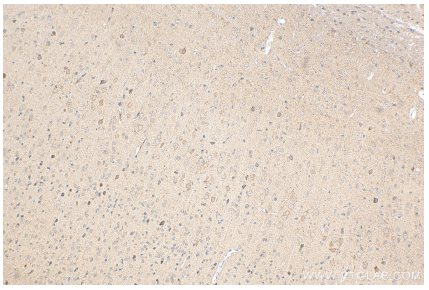
These five antibodies, ATP5A1 (14676-1-AP, 1:8000), UQCRC2 (14742-1-AP, 1:4000), SDHB (10620-1-AP, 1:8000), MTCO2 (55070-1-AP, 1:1000), NDUFB8 (14794-1-AP, 1:5000), can be assembled OXPHOS kit to detect the relative levels of the 5 OXPHOS complexes in mitochondrial preparations.



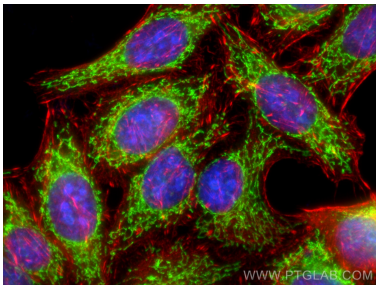
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 14676-1-AP (ATP5A1 antibody) at dilution of 1:200 (under 10x lens).



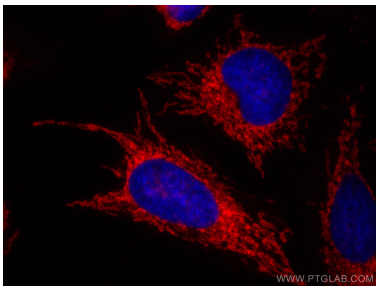
Various lysates were subjected to SDS PAGE followed by western blot with 14676-1-AP (ATP5A1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14676-1-AP (ATP5A1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using ATP5A1 antibody (14676-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using ATP5A1 antibody (14676-1-AP) at dilution of 1:800 and CoraLite®594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).