

ATP5A1 Polyklonaler Antikörper

Katalog-Nr.: 14676-1-AP

83 Publikationen

Allgemeine Informationen

Katalog-Nr.:	14676-1-AP	GenBank-Zugangsnummer:	BC064562
Größe:	150ul, Konzentration: 400 µg/ml von	GenID (NCBI):	498
Nanodrop:		Vollständiger Name:	
Wirt:	Kaninchen	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle	
Isotyp:	IgG	Berechneté Masse:	60 kDa
Immunogen Katalognummer:	AG6385	Beobachteté Masse:	50-55 kDa

Anwendungen

Geprüfte Anwendungen:	IF, IHC, WB, ELISA	Positivkontrollen:	WB : HeLa-Zellen, HepG2-Zellen, Jurkat-Zellen, Mausherzgewebe, Maushirngewebe, Rattenherzgewebe, Rattenhirngewebe
In Publikationen genannte Anwendungen:	IF, IHC, IP, WB	IHC :	humanes Lebergewebe, humanes Hirngewebe, humanes Nierengewebe, Maushirngewebe
Getestete Reaktivität:	Human, Maus, Ratte	IF :	HeLa-Zellen, HepG2-Zellen
Zitierte Arten:	Hamster, Human, Maus, Ratte		
Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.			

Hintergrundinformationen

The ATP5A1 gene encodes the a 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 F1FO 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. F1 domain has 10 subunits: a,b, c, d, e, f, g, OSCP, A6l, and F6. F1 is composed of subunits a, 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.

Bemerkenswerte Veröffentlichungen

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

Lagerung

Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
Aliquotieren ist nicht notwendig bei -20°C Lagerung

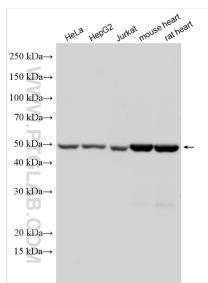
*** 20ul-Größen enthalten 0.1% BSA

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)

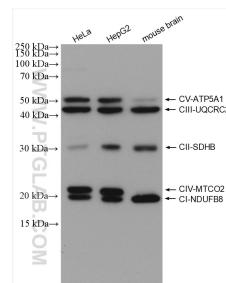
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

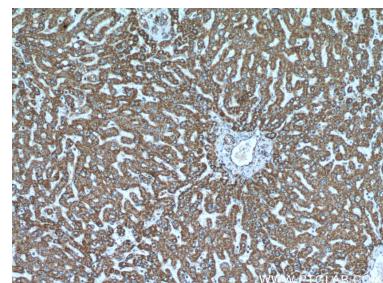
Ausgewählte Validierungsdaten



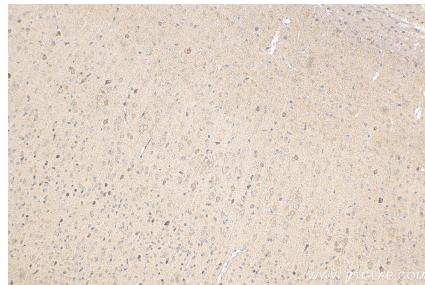
Various lysates were subjected to SDS PAGE followed by western blot with 14676-1-AP (ATP5A1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



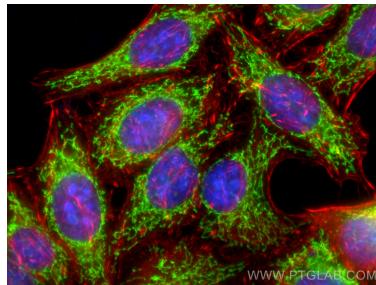
These five antibodies, ATP5A1 (14676-1-AP, 1:8000), UQCRC2 (14742-1-AP, 1:4000), SDHB (10620-1-AP, 1:8000), MTCO2 (55070-1-AP, 1:1000), NDUF88 (14794-1-AP, 1:5000), can be assembled OXPHOS kit to detect the relative levels of the 5 OXPHOS complexes in mitochondrial preparations.



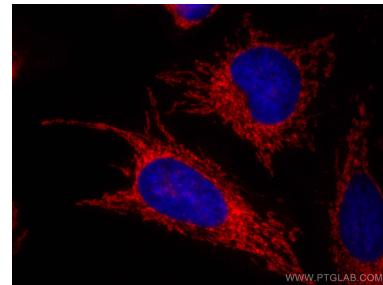
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 14676-1-AP (ATP5A1 antibody) at dilution of 1:200 (under 10x lens).



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).