

ATP5A1 Rekombinanter Antikörper

Katalog-Nr.:**82288-1-RR**

Allgemeine Informationen

Katalog-Nr.:	82288-1-RR	GenBank-Zugangsnummer:	BC064562
Größe:	100ul , Konzentration: 1000 µg/ml von 498	GenID (NCBI):	
Nanodrop:		Vollständiger Name:	
Wirz:	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

Getestete Reaktivität:

Human, Maus, Ratte

Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Positivkontrollen:

WB : HEK-293-Zellen, HeLa-Zellen, HepG2-Zellen, Jurkat-Zellen, MCF-7-Zellen, NIH/3T3-Zellen

IHC : Maushirngewebe, humanes Lebergewebe

IF : HepG2-Zellen, HeLa-Zellen

Hintergrundinformationen

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 F1FO ATP synthase, is a multi-subunit enzyme complex consisting of two functional domains, the F1-containing the catalytic core and the F0-containing the membrane proton channel. F0 domain has 10 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.

Lagerung

Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

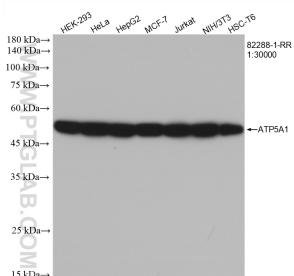
Lagerungspuffer:

PBS mit 0,02% Natriumazid und 50% Glycerin pH 7,3.

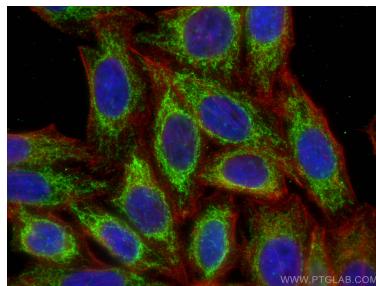
Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0,1% BSA

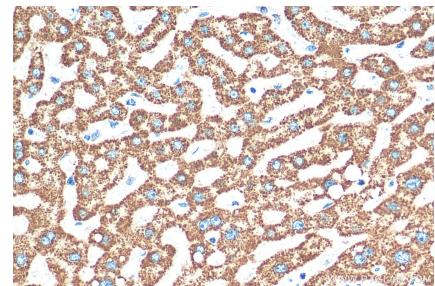
Ausgewählte Validierungsdaten



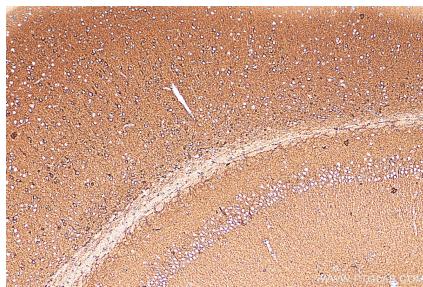
Various lysates were subjected to SDS PAGE followed by western blot with 82288-1-RR (ATP5A1 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



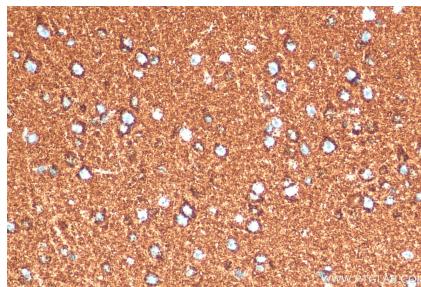
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ATP5A1 antibody (82288-1-RR, Clone: 4O12) at dilution of 1:2000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



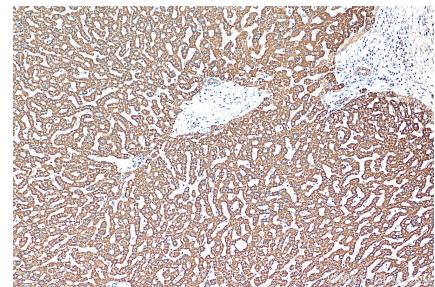
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 82288-1-RR (ATP5A1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82288-1-RR (ATP5A1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82288-1-RR (ATP5A1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 82288-1-RR (ATP5A1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).