

Nur für Forschungszwecke

# ATP5A1 Monoklonaler Antikörper

Katalog-Nr.:CL488-66037



## Allgemeine Informationen

<b>Katalog-Nr.:</b> CL488-66037	<b>GenBank-Zugangsnummer:</b> BC064562	<b>Reinigungsmethode:</b> Protein-A-Reinigung
<b>Größe:</b> 100ul , Konzentration: 1000 µg/ml von498 Nanodrop;	<b>GeneID (NCBI):</b> 1B10H3	<b>CloneNo.:</b> 1B10H3
<b>Wirt:</b> Maus	<b>Vollständiger Name:</b> ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle	<b>Empfohlene Verdünnungen:</b> IF 1:50-1:500
<b>Isotyp:</b> IgG2b	<b>Berechnete Masse:</b> 60 kDa	<b>Anregungs-/Emissionsmaxima- Wellenlängen:</b> 493 nm / 522 nm
<b>Immunogen Katalognummer:</b> AG8119		

## Anwendungen

<b>Geprüfte Anwendungen:</b> FC (Intra), IF	<b>Positivkontrollen:</b> IF : HepG2-Zellen, HeLa-Zellen
<b>Getestete Reaktivität:</b> Affe, Human, Maus, Ratte	

## Hintergrundinformationen

The ATP5A1 gene encodes the  $\alpha$  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 F<sub>1</sub>F<sub>0</sub> ATP synthase, is a multi-subunit enzyme complex consisting of two functional domains, the F<sub>1</sub>-containing the catalytic core and the F<sub>0</sub>-containing the membrane proton channel. F<sub>0</sub> domain has 10 subunits: a, b, c, d, e, f, g, OSCP, A6L, and F6. F<sub>1</sub> is composed of subunits  $\alpha$ ,  $\beta$ ,  $\gamma$ ,  $\delta$ ,  $\epsilon$ , 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. Vor Licht schützen. Nach dem Versand ein Jahr stabil.  
**Lagerungspuffer:**  
BS mit 50% Glycerin, 0,05% Proclin300, 0,5% BSA, pH 7,3.  
**Aliquotieren ist nicht notwendig bei -20°C Lagerung**

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

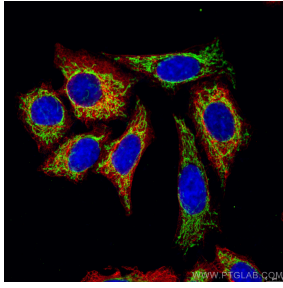
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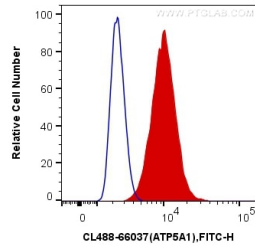
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## Ausgewählte Validierungsdaten



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CL488-66037 (Green, ATP5A1 antibody) at dilution of 1:100 and CL594-66187 (Red, Cytokeratin 18 antibody) at dilution of 1:100.



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human ATP5A1 (CL488-66037, Clone:1B10H3) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).