

À des fins de recherche uniquement

# Anticorps Monoclonal anti-ATP5A1

Numéro de catalogue: **CL594-66037**



## Informations de base

<b>Numéro de catalogue:</b> CL594-66037	<b>Numéro d'acquisition GenBank:</b> BC064562	<b>Méthode de purification:</b> Purification par protéine A
<b>Taille:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>Identification du gène (NCBI):</b> 498	<b>CloneNo.:</b> 1B10H3
<b>Hôte:</b> Mouse	<b>Nom complet:</b> ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle	<b>Dilutions recommandées:</b> WB 1:500-1:1000 IF 1:50-1:500
<b>Isotype:</b> IgG2b	<b>MW calculé</b> 60 kDa	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
<b>Immunogen Catalog Number:</b> AG8119	<b>MW observés:</b> 50 kDa	

## Applications

<b>Applications testées:</b> IF, WB	<b>Contrôles positifs:</b>
<b>Spécificité de l'espèce:</b> Humain, rat, singe, souris	<b>WB :</b> cellules HEK-293, cellules HeLa, cellules MCF-7, cellules NIH/3T3 <b>IF :</b> cellules HepG2,

## Informations générales

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 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. FO domain has 10 subunits: a, b, c, d, e, f, g, OSCP, A6L, and F6. F1 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.

## Stockage

**Stockage:**  
Stocker à -20 °C. Éviter toute exposition à la lumière. Stable pendant un an après l'expédition.  
**Tampon de stockage:**  
PBS avec glycérol à 50 %, Proclin300 à 0,05 % et BSA à 0,5 %, pH 7,3.  
L'aliquotage n'est pas nécessaire pour le stockage à -20C

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

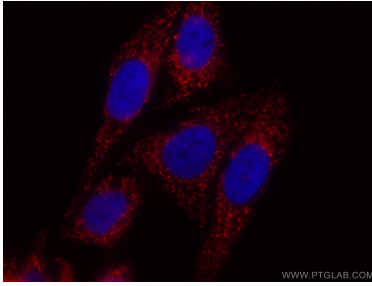
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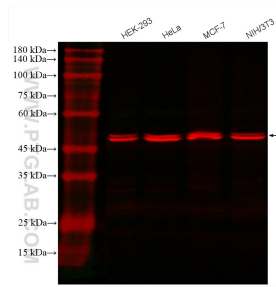
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

## Données de validation sélectionnées



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite®594 ATP5A1 antibody (CL594-66037, Clone: 1B10H3) at dilution of 1:100.



Various lysates were subjected to SDS PAGE followed by western blot with CL594-66037 (ATP5A1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.