

À des fins de recherche uniquement

# Anticorps Monoclonal anti-ATP5A1

Numéro de catalogue: CL555-66037

1 Publications



## Informations de base

Numéro de catalogue: CL555-66037	Numéro d'acquisition GenBank: BC064562	Méthode de purification: Purification par protéine A
Taille: 100ul, Concentration: 1000 µg/ml by Nanodrop;	Identification du gène (NCBI): 498	CloneNo.: 1B10H3
Hôte: Mouse	Nom complet: ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle	Dilutions recommandées: IF 1:50-1:500
Isotype: IgG2b	MW calculé 60 kDa	Excitation/Emission maxima wavelengths: 557 nm / 570nm
Immunogen Catalog Number: AG8119	MW observés: 50 kDa	

## Applications

Applications testées: FC (Intra), IF	Contrôles positifs: IF : cellules HepG2,
Demandes citées: FC	
Spécificité de l'espèce: Humain, rat, singe, souris	
Espèces citées: souris	

## 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.

## Publications notables

Autrice	Pubmed ID	Journal	Application
Yavuz F Yazicioglu	37095377	Nat Immunol	FC

## 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'aliquoteage n'est pas nécessaire pour le stockage à -20C

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

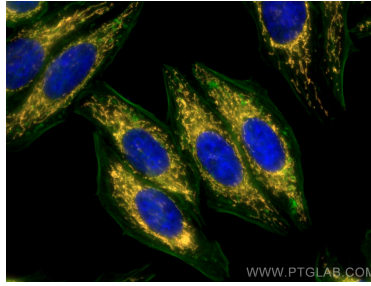
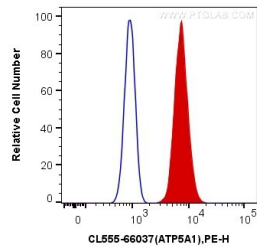
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## Données de validation sélectionnées



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.2 ug CoraLite®555 Anti-Human ATP5A1 (CL555-66037, Clone:1B10H3) (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using CoraLite®555 ATP5A1 antibody (CL555-66037, Clone: 1B10H3 ) at dilution of 1:200, CoraLite®488 Beta Actin antibody (CL488-66009, Clone: 2D4H5, green).