For Research Use Only

CoraLite® Plus 488-conjugated ATP5A1 Recombinant antibody

Catalog Number:CL488-82288

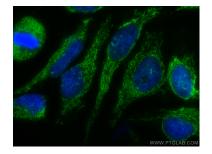
Basic Information	Catalog Number: CL488-82288	GenBank Accession Number: BC064562	Purification Method: Protein A purification
	Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG6385	GeneID (NCBI): / 498 UNIPROT ID: P25705 Full Name: ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle Calculated MW: 60 kDa Observed MW:	CloneNo.: 4012 Recommended Dilutions: IF/ICC 1:200-1:800 Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Background Information	Species Specificity: human, mouse, rat 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 F1F0 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: 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		
Storage	MW of ATP5A1 is 60 kDa, while it und kDa. Several isoforms of ATP5A1 exis Storage:	ergoes the transit peptide cleavage	to become a mature form around 50-55

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.comW: ptglab.comW: ptglab.com

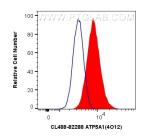
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 ATP5A1 antibody (CL488-82288, Clone: 4012) at dilution of 1:400.



1X10^6 HeLa cells were intracellularly stained with 0.8 ug CoraLite® Plus 488 Anti-Human ATP5A1 (CL488-82288, Clone:4012) (red), or 0.8 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).