

## ATP5A1 Conjugated Antibody

Catalog No: #C49466



Package Size: #C49466-AF350 100ul #C49466-AF405 100ul #C49466-AF488 100ul  
 #C49466-AF555 100ul #C49466-AF594 100ul #C49466-AF647 100ul  
 #C49466-AF680 100ul #C49466-AF750 100ul #C49466-Biotin 100ul

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## Description

Product Name	ATP5A1 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	ATP synthase alpha chain, mitochondrial antibody ATP synthase subunit alpha antibody ATP synthase subunit alpha mitochondrial antibody ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle antibody ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, alpha subunit, 1 antibody ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle antibody ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, alpha subunit, isoform 2, non-cardiac muscle-like 2 antibody ATP sythase (F1 ATPase) alpha subunit antibody ATP5A antibody Atp5a1 antibody ATP5AL2 antibody ATPA_HUMAN antibody ATPM antibody Epididymis secretory sperm binding protein Li 123m antibody hATP1 antibody HEL-S-123m antibody MC5DN4 antibody mitochondrial antibody Mitochondrial ATP synthetase antibody Mitochondrial ATP synthetase oligomycin resistant antibody Modifier of Min 2 mouse homolog antibody Modifier of Min 2, mouse, homolog of antibody MOM2 antibody OMR antibody ORM antibody OTTHUMP00000163475 antibody
Accession No.	Swiss-Prot#:P25705
Uniprot	P25705
GeneID	498;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	50 kDa
Concentration	0.5 mg/ml
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

#### Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

## Background

Mitochondrial ATP synthases (ATPases) transduce the energy contained in membrane electrochemical proton gradients into the energy required for synthesis of high-energy phosphate bonds. ATPases contain two linked complexes: F1, the hydrophilic catalytic core; and F0, the membrane-embedded protein channel. F1 consists of three  $\alpha$  chains and three  $\beta$  chains, which are weakly homologous, as well as one  $\gamma$  chain, one  $\delta$  chain and one e chain. F0 consists of three subunits: a, b and c. The  $\alpha$  chain of F1 is a regulatory subunit that contains 509 amino acids. Mitochondrial ATPase  $\alpha$  chain (ATP5A) localizes to the mitochondria and catalyzes ATP synthesis.

Note: This product is for in vitro research use only