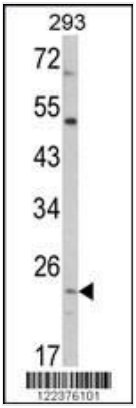
ATP5O Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

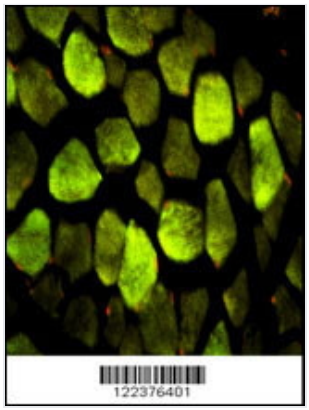
Product Name	ATP5O, Polyclonal Antibody
Full Product Name	ATP5O, NT (ATP Synthase Subunit O, Mitochondrial, Oligomycin Sensitivity Conferral Protein, OSCP, ATP5O) (Azide free) (HRP)
Product Gene Name	anti-ATP5O antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human ATP5O.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	23,277 Da
OMIM	600828
3D Structure	ModBase 3D Structure for P48047
Immunogen	Synthetic peptide selected from the N-terminal region of human ATP5O (KLH).
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-ATP5O antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-ATP5O antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ATP5O antibody	WB: 1:100-1:500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ATP5O antibody	MBS6464379 is an antibody targeting ATP5O. Also known as ATP5O, NT (ATP Synthase Subunit O, Mitochondrial, Oligomycin Sensitivity Conferral Protein, OSCP, ATP5O) (Azide free) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ATP5O antibody	1. Wang, L., et.al., Cancer Epidemiol. Biomarkers Prev. 17(12), 3558-3566 (2008). 2. Contessi, S., et.al., J. Bioenerg. Biomembr. 39(4), 291-300 (2007).
Other Notes	Small volumes of anti-ATP5O antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



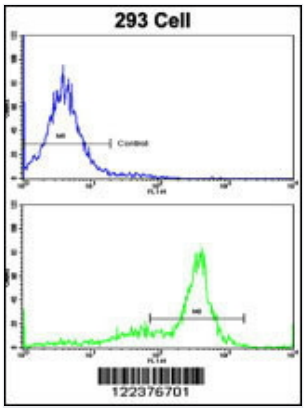
Western Blot (WB) of anti-ATP5O antibody
Western blot analysis of ATP5O Antibody (N-term) in 293 cell line lysates (35ug/lane). ATP5O (arrow) was detected using the purified Pab.



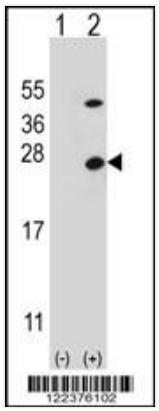
Immunohistochemistry (IHC) of anti-ATP5O antibody
Formalin-fixed and paraffin-embedded human skeletal muscle with ATP5O Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Immunohistochemistry (IHC) of anti-ATP5O antibody
Immunofluorescence analysis of ATP5O Antibody (N-term) with paraffin-embedded human skeletal muscle. 0.05 mg/ml primary antibody was followed by FITC-conjugated goat anti-rabbit IgG (whole molecule). FITC emits green fluorescence.Red counterstaining is PI.



Flow Cytometry (FC/FACS) of anti-ATP5O antibody
Flow cytometric analysis of 293 cells using ATP5O Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Flow Cytometry (FC/FACS) of anti-ATP5O antibody
Flow cytometric analysis of 293 cells using ATP5O Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATP5O. It may not necessarily be applicable to this product.

NCBI GI #	4502303
NCBI GeneID	539

NCBI Accession #	NP_001688.1
UniProt Primary Accession #	P48047
UniProt Secondary Accession #	Q5U042; Q6IBI2; B2R4E2
UniProt Related Accession #	P48047
GenBank Nucleotide #	NM_001697.2
NCBI Official Full Name	ATP synthase subunit O, mitochondrial
NCBI Official Synonym Full Names	ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit
NCBI Official Symbol	ATP5O
NCBI Official Synonym Symbols	ATPO; OSCP
UniProt Protein Name	ATP synthase subunit O, mitochondrial
UniProt Synonym Protein Names	Oligomycin sensitivity conferral protein; OSCP
UniProt Gene Name	ATP5O
UniProt Synonym Gene Names	ATPO; OSCP
UniProt Entry Name	ATPO_HUMAN
NCBI Protein Information	ATP synthase subunit O, mitochondrial; human ATP synthase OSCP subunit; oligomycin sensitivity conferral protein; oligomycin sensitivity conferring protein
NCBI Summary for ATP5O	The protein encoded by this gene is a component of the F-type ATPase found in the mitochondrial matrix. F-type ATPases are composed of a catalytic core and a membrane proton channel. The encoded protein appears to be part of the connector linking these two components and may be involved in transmission of conformational changes or proton conductance. [provided by RefSeq, Jul 2008]
UniProt Comments for ATP5O	ATP5O: Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F(0) domain and the peripheric stalk, which acts as a stator to hold the catalytic alpha(3)beta(3) subcomplex and subunit a/ATP6 static relative to the rotary elements. Belongs to the ATPase delta chain family. Protein type: Mitochondrial; Energy Metabolism - oxidative phosphorylation; EC 3.6.3.14; Hydrolase Chromosomal Location of Human Ortholog: 21q22.11 Cellular Component: mitochondrion; mitochondrial inner membrane; plasma membrane; nucleus; mitochondrial proton-transporting ATP synthase complex Molecular Function: transporter activity; ATPase activity; hydrogen ion transporting ATP synthase activity, rotational mechanism; drug binding; transmembrane transporter activity Biological Process: cellular metabolic process; proton transport; ATP biosynthetic process; mitochondrial ATP synthesis coupled proton transport
Research Articles on ATP5O	**1.** Sirt3 physically interacted with the OSCP and led to its subsequent deacetylation.
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