

Rabbit ATP5O Polyclonal Antibody | anti-ATP5O antibody

ATP5O Antibody (N-term)

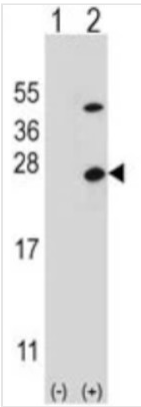
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287127	Rabbit	Human (Predicted Reactivity: Bovine, Pig)	Flow Cytometry, Functional Assay, Western Blot, Immunofluorescence, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

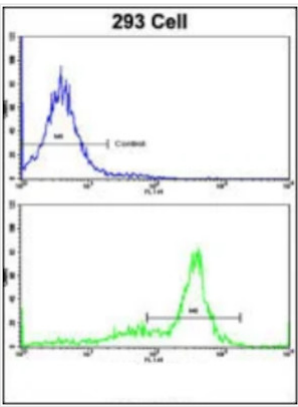
ATP5O; Polyclonal Antibody; ATP5O Antibody (N-term); ATP synthase subunit O; mitochondrial; Oligomycin sensitivity conferral protein; OSCP; ATPO; anti-ATP5O antibody

PRODUCT SPECIFICATIONS

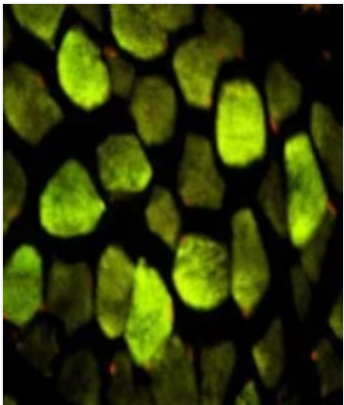
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Pig)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This ATP5O antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 38-64 amino acids from the N-terminal region of human ATP5O.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	38-64
Sequence Length	213
Applicable Applications for anti-ATP5O antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Function	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.
Cellular Location	Mitochondrion. Mitochondrion inner membrane
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



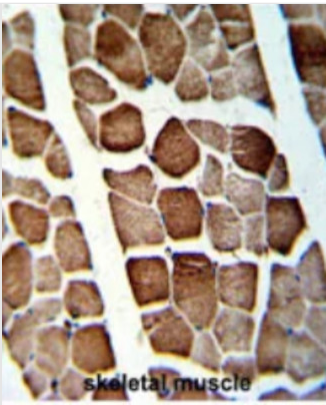
WB (Western Blot)
Western blot analysis of ATP5O (arrow) using rabbit polyclonal ATP5O Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ATP5O gene.



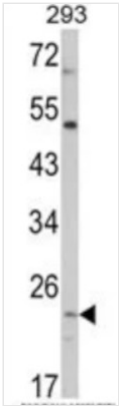
FCM/FACS (Flow Cytometry)
Flow cytometric analysis of 293 cells using ATP5O Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IF (Immunofluorescence)
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.



IHC (Immunohistochemistry)
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.



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

ADDITIONAL INFORMATION

Related Product Information for anti-ATP5O antibody

ATP5O 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. This protein appears to be part of the connector linking these two components and may be involved in transmission of conformational changes or proton conductance.

Product Categories/Family for anti-ATP5O antibody	Metabolism; Signal Transduction
References	Wang,L., et.al., Cancer Epidemiol. Biomarkers Prev. 17 (12), 3558-3566 (2008) Contessi,S., et.al., J. Bioenerg. Biomembr. 39 (4), 291-300 (2007)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502303
NCBI GeneID	539
NCBI Accession #	NP_001688.1
NCBI GenBank Nucleotide #	NM_001697.2
UniProt Accession #	P48047; Q5U042; Q6IBI2; B2R4E2
Molecular Weight	23277
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; HMC08D05
NCBI Protein Information	ATP synthase subunit O, mitochondrial
UniProt Protein Name	ATP synthase subunit O, mitochondrial
UniProt Gene Name	ATP5O
UniProt Synonym Gene Names	ATPO; OSCP
UniProt Entry Name	ATPO_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/atp5o-antibody-flow-cytometry-western-blot-immunofluorescence-immunohistochemistry-elisa/287127>