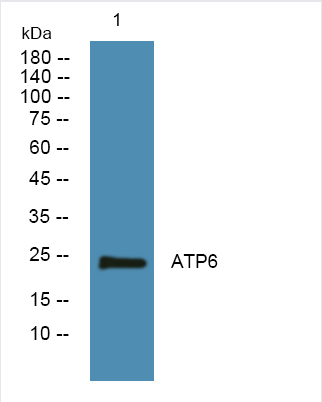
ATP6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATP6, Polyclonal Antibody
Full Product Name	ATP6 Rabbit Polyclonal Antibody
Product Gene Name	anti-ATP6 antibody
Product Synonym Gene Name	MT-ATP6, ATP6, ATPASE6, MTATP6
Product Synonym Names	BH6842; ATP synthase subunit a (F-ATPase protein 6)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Rat, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	ATP6 Polyclonal Antibody detects endogenous levels of protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	24,817 Da
OMIM	phenotype 551500
3D Structure	ModBase 3D Structure for P00846
Immunogen	Synthesized peptide derived from human protein. at AA range: 60-140
Modification	Unmodified/Total
Applications Tested/Suitable for anti-ATP6 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ATP6 antibody	WB: 1:500-2000 ELISA: 1:5000-20000
Related Product Information for anti-ATP6 antibody	MBS9513476 is an antibody targeting ATP6. Also known as ATP6 Rabbit Polyclonal Antibody. Reactive in Human, Rat, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-ATP6 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-ATP6 antibody
Western blot analysis of lysates from SW480 cells, primary antibody was diluted at 1:1000, 4 degree over night

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATP6. It may not necessarily be applicable to this product.

NCBI GI #	251831112
NCBI GeneID	4508
NCBI Accession #	YP_003024031.1
UniProt Primary Accession #	P00846
UniProt Secondary Accession #	Q34772; Q5S8W5; Q5S9E7; Q5S9I6; Q5SA31; Q6RPB7; Q6VHC0; Q6VHE0; Q6WQF4; Q7YCC1; Q7YCF8
GenBank Nucleotide #	NC_012920.1
NCBI Official Full Name	ATP synthase F0 subunit 6 (mitochondrion)
NCBI Official Synonym Full Names	mitochondrially encoded ATP synthase 6
NCBI Official Symbol	MT-ATP6
NCBI Official Synonym Symbols	ATPase6; MTATP6; ATP6
UniProt Protein Name	ATP synthase subunit a
UniProt Synonym Protein Names	F-ATPase protein 6
UniProt Gene Name	MT-ATP6
UniProt Synonym Gene Names	ATP6; ATPASE6; MTATP6
UniProt Entry Name	ATP6_HUMAN
NCBI Protein Information	ATP synthase F0 subunit 6

UniProt Comments for ATP6	ATP6: 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. Key component of the proton channel; it may play a direct role in the translocation of protons across the membrane. Defects in MT-ATP6 are the cause of neurogenic muscle weakness, ataxia, and retinitis pigmentosa (NARP). Defects in MT-ATP6 are a cause of Leber hereditary optic neuropathy (LHON). LHON is a maternally inherited disease resulting in acute or subacute loss of central vision, due to optic nerve dysfunction. Cardiac conduction defects and neurological defects have also been described in some patients. LHON results from primary mitochondrial DNA mutations affecting the respiratory chain complexes. Defects in MT-ATP6 are a cause of Leigh syndrome (LS). LS is a severe neurological disorder characterized by bilaterally symmetrical necrotic lesions in subcortical brain regions. Defects in MT-ATP6 are a cause of mitochondrial infantile bilateral striatal necrosis (MIBSN). Bilateral striatal necrosis is a neurological disorder resembling Leigh syndrome. Belongs to the ATPase A chain family. Protein type: Transporter, ion channel; Membrane protein, multi-pass; Mitochondrial; Membrane protein, integral; Transporter Chromosomal Location of Human Ortholog: - Disease: Neuropathy, Ataxia, And Retinitis Pigmentosa; Leber Optic Atrophy
Research Articles on ATP6	**1.** Two synonymous substitutions (mt.8614T>C and mt.8994G>A) in the mt-ATP6 gene may be associated with childhood obesity; study provides first data about mitochondrial genome variations in a Turkish obese population and also the first in obese children
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/atp6/9513476