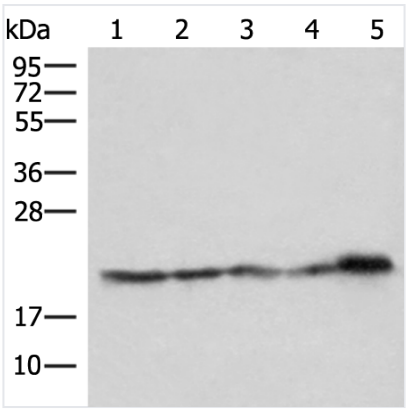
ATP5PD Antibody – Rabbit Polyclonal

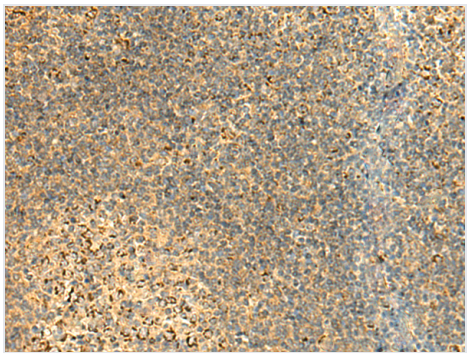
PRODUCT OVERVIEW

Product Name	ATP5PD, Polyclonal Antibody
Full Product Name	ATP5PD Polyclonal Antibody
Product Gene Name	anti-ATP5PD antibody
Product Synonym Names	ATP synthase D chain mitochondrial; ATP synthase H+ transporting mitochondrial F1F0 subunit; ATP synthase H+ transporting mitochondrial F1F0 subunit d; ATP synthase subunit d; ATP synthase subunit d; Mitochondrial; ATP synthase; H+ transporting; Mitochondrial F0 complex; Subunit d; ATP5H; ATP5H; ATP5JD; ATPase subunit d; ATPQ; Mitochondrial; My032 protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.05% NaN3 and 40% Glycerol, pH7.4
Purity/Purification	Antigen Affinity Purification
Concentration	1.62mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	18 kDa
3D Structure	ModBase 3D Structure for O75947
Immunogen	Fusion protein of human ATP5PD
Conjugation	Unconjugated
Product Categories/Family for anti-ATP5PD antibody	Cancer; Metabolism; Signal Transduction; Tags and Cell Markers
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ATP5PD antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-ATP5PD antibody	WB: 1:500-1:2000 IHC: 1:50-1:300 ELISA: 1:5000-1:10000
Related Product Information for anti-ATP5PD antibody	Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises the proton channel. The F1 complex consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled in a ratio of 3 alpha, 3 beta, and a single representative of the other 3. The Fo seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the d subunit of the Fo complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. In addition, three pseudogenes are located on chromosomes 9, 12 and 15.
Other Notes	Small volumes of anti-ATP5PD 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.

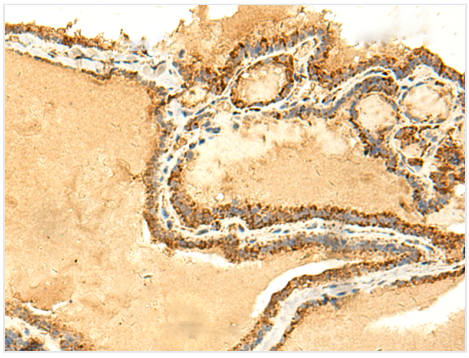
Searchable Terms for ATP5PD purchase	MBS2562783 is an antibody targeting ATP5PD. Also known as ATP5PD Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-ATP5PD antibody
Western blot analysis of Hela HepG2 Jurkat and PC3 cell Mouse kidney tissue lysates using ATP5PD Polyclonal Antibody at dilution of 1:550



Immunohistochemistry (IHC) of anti-ATP5PD antibody
Immunohistochemistry of paraffin-embedded Human tonsil tissue using ATP5PD Polyclonal Antibody at dilution of 1:50(×200)



Immunohistochemistry (IHC) of anti-ATP5PD antibody
Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using ATP5PD Polyclonal Antibody at dilution of 1:50(×200)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATP5PD. It may not necessarily be applicable to this product.

NCBI GI #	51479152
NCBI GeneID	10476
NCBI Accession #	NP_001003785.1
NCBI Related Accession #	BC032245
UniProt Primary Accession #	O75947
UniProt Related Accession #	O75947
GenBank Nucleotide #	NP_001003785.1
NCBI Official Full Name	ATP synthase subunit d, mitochondrial isoform b
NCBI Official Synonym Full Names	ATP synthase peripheral stalk subunit d
NCBI Official Symbol	ATP5PD
NCBI Official Synonym Symbols	ATPQ; APT5H; ATP5H
UniProt Protein Name	ATP synthase subunit d, mitochondrial
UniProt Gene Name	ATP5H

UniProt Synonym Gene Names	ATPase subunit d
UniProt Entry Name	ATP5H_HUMAN
NCBI Protein Information	ATP synthase subunit d, mitochondrial
UniProt Comments for ATP5PD	ATP5H: 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 d subunit family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.6.3.14; Mitochondrial; Energy Metabolism - oxidative phosphorylation Chromosomal Location of Human Ortholog: 17q25 Cellular Component: nucleoplasm; mitochondrion; mitochondrial inner membrane; cytoplasm; mitochondrial proton-transporting ATP synthase complex Molecular Function: ATPase activity; hydrogen ion transmembrane transporter activity; transmembrane transporter activity Biological Process: cellular metabolic process; mitochondrial ATP synthesis coupled proton transport
Research Articles on ATP5PD	**1.** The Network analyses identified ATP5H expression in temporal cortex in patient with late-onset Alzheimer's disease.
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