ATP4B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATP4B, Polyclonal Antibody
Full Product Name	ATP4B, NT (ATP4B, Potassium-transporting ATPase subunit beta, Gastric H(+)/K(+) ATPase subunit beta, Proton pump beta chain) (MaxLight 650)
Product Gene Name	anti-ATP4B antibody
Product Synonym Names	ATP4B; Potassium-transporting ATPase subunit beta; Gastric H(+)/K(+) ATPase subunit beta; Proton pump beta chain
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	33,367 Da
OMIM	M75110 mRNA
3D Structure	ModBase 3D Structure for P51164
Immunogen	ATP4B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 60-90 amino acids from the N-terminal region of human ATP4B.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-ATP4B antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-ATP4B antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-ATP4B antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-ATP4B antibody	ATP4B belongs to a family of P-type cation-transporting ATPases. The gastric H+, K+-ATPase is a heterodimer consisting of a high molecular weight catalytic alpha subunit and a smaller but heavily glycosylated beta subunit. This enzyme is a proton pump that catalyzes the hydrolysis of ATP coupled with the exchange of H(+) and K(+) ions across the plasma membrane. It is also responsible for gastric acid secretion. This gene encodes the beta subunit of the gastric H+, K+-ATPase.
Product References and Citations for anti-ATP4B antibody	Bab-Dinitz, E., et al. Biochemistry 48(36):8684-8691(2009). Knouff, C.W., et al. Pharmacogenet. Genomics 18(12):1051-1057(2008). Oh, J.H., et al. Mamm. Genome 16(12):942-954(2005).

Other Notes	Small volumes of anti-ATP4B 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 ATP4B purchase	MBS6276488 is an antibody targeting ATP4B. Also known as ATP4B, NT (ATP4B, Potassium-transporting ATPase subunit beta, Gastric H(+)/K(+) ATPase subunit beta, Proton pump beta chain) (MaxLight 650). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATP4B. It may not necessarily be applicable to this product.

NCBI GI #	4557339
NCBI GeneID	496
NCBI Accession #	NP_000696.1
UniProt Primary Accession #	P51164
UniProt Secondary Accession #	B1B0N8
UniProt Related Accession #	P51164
GenBank Nucleotide #	NM_000705.3
NCBI Official Full Name	potassium-transporting ATPase subunit beta
NCBI Official Synonym Full Names	ATPase H+/K+ transporting beta subunit
NCBI Official Symbol	ATP4B
NCBI Official Synonym Symbols	ATP6B
UniProt Protein Name	Potassium-transporting ATPase subunit beta
UniProt Synonym Protein Names	Gastric H(+)/K(+) ATPase subunit beta; Proton pump beta chain
Protein Family	Potassium-transporting ATPase
UniProt Gene Name	ATP4B
NCBI Protein Information	potassium-transporting ATPase subunit beta
NCBI Summary for ATP4B	The protein encoded by this gene belongs to a family of P-type cation-transporting ATPases. The gastric H+, K+-ATPase is a heterodimer consisting of a high molecular weight catalytic alpha subunit and a smaller but heavily glycosylated beta subunit. This enzyme is a proton pump that catalyzes the hydrolysis of ATP coupled with the exchange of H(+) and K(+) ions across the plasma membrane. It is also responsible for gastric acid secretion. This gene encodes the beta subunit of the gastric H+, K+-ATPase. [provided by RefSeq, Jul 2008]
UniProt Comments for ATP4B	ATP4B: belongs to a family of P-type cation-transporting ATPases. The gastric H+, K+-ATPase is a heterodimer consisting of a high molecular weight catalytic alpha subunit and a smaller but heavily glycosylated beta subunit. This enzyme is a proton pump that catalyzes the hydrolysis of ATP coupled with the exchange of H(+) and K(+) ions across the plasma membrane. It is also responsible for gastric acid secretion. This gene encodes the beta subunit of the gastric H+, K+-ATPase. [provided by RefSeq, Jul 2008] Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 13q34 Cellular Component: plasma membrane Molecular Function: hydrogen:potassium-exchanging ATPase activity; protein binding
Research Articles on ATP4B	**1.** these findings demonstrated that a decrease in pHi, caused by H+/K+-ATPase inhibition induced by BMT-1, triggered the dysfunction of the mitochondria resulting in the apoptosis of MM cells

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-antibody/atp4b/6276488