ATP4B Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	ATP4B, Blocking Peptide
Full Product Name	ATP4B Peptide - middle region
Product Gene Name	ATP4B blocking peptide
Product Synonym Gene Name	ATP6B
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	ATP4B peptide (MBS3232284) is used for blocking the activity of ATP4B antibody (MBS3207319)
Molecular Weight	33kDa
OMIM	M75110 mRNA
Product Categories/Family for ATP4B blocking peptide	Peptide
Applications Tested/Suitable for ATP4B blocking peptide	Western Blot (WB)
Related Product Information for ATP4B blocking peptide	This is a synthetic peptide designed for use in combination with anti-ATP4B antibody made Target Description: 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.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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
Other Notes	Small volumes of ATP4B blocking peptide 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	MBS3232284 is a blocking peptide targeting ATP4B. Also known as ATP4B Peptide - middle region.

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
UniProt Primary Accession #	P51164
UniProt Related Accession #	P51164

GenBank Nucleotide #	NM_000705
NCBI Official Full Name	potassium-transporting ATPase subunit beta
NCBI Official Synonym Full Names	ATPase H+/K+ transporting subunit beta
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
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