Recombinant Human ATP4B protein, GST-tagged

Cat. No. ATP4B-2435H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP4B fused with GST tag was expressed in E. coli.
Species	Human
Source	E.coli
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.
Form	Lyophilized from 0.2 μm filtered PBS, pH 7.4
Molecular Mass	54 kD
AA Sequence	CLYVLMQTVD PYTPDYQDQL RSPGVTLRPD VYGEKGLEIVYNVSDNRTWA DLTQTLHAFL AGYSPAAQED SINCTSEQYFFQESFRAPNH TKFSCKFTAD MLQNCSGLAD PNFGFEEGKPCFIIKMNRIV KFLPSNGSAP RVDCAFLDQP RELGQPLQVKYYPPNGTFSL HYFPYYGKKA QPHYSNPLVA AKLLNIPRNAEVAIVCKVMA EHVTFNNPHD PYEGKVEFKL KIEK
Storage	Long term: -80 centigrade; Short term: -20 centigrade. Avoid freeze-thaw cycles.

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GENE INFORMATION

Gene Name	ATP4B ATPase, H+/K+ exchanging, beta polypeptide [Homo sapiens]
Official Symbol	ATP4B
Synonyms	ATP4B; ATPase, H+/K+ exchanging, beta polypeptide; potassium-transporting ATPase subunit beta; ATP6B; proton pump beta chain; gastric H+/K+ ATPase beta subunit; gastric H(+)/K(+) ATPase subunit beta; gastric hydrogen-potassium ATPase, beta; potassium-transporting ATPase beta chain; ATPase, H+/K+ transporting, beta polypeptide;
Gene ID	496
mRNA Refseq	NM_000705
Protein Refseq	NP_000696
MIM	137217
UniProt ID	P51164
Chromosome Location	13q34
Pathway	Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid secretion, conserved biosystem; Gastric acid secretion, organism-specific biosystem; Gastric acid secretion, conserved biosystem; Ion channel transport, organism-specific biosystem; Ion transport by P-type ATPases, organism-specific biosystem; Oxidative phosphorylation, organism-specific biosystem;

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Function	hydrogen:potassium-exchanging ATPase activity; sodium:potassium-exchanging ATPase activity;

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