Recombinant Human ATP1B2, His-tagged

Cat. No. ATP1B2-10008H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP1B2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	64-171a.a.
Description	The protein encoded by this gene belongs to the family of Na+/K+ and H+/K+ ATPases beta chain proteins, and to the subfamily of Na+/K+ -ATPases. Na+/K+ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na+/K+ -ATPase is encoded by multiple genes. This gene encodes a beta 2 subunit.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 300mM

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	Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	ATP1B2 ATPase, Na+/K+ transporting, beta 2 polypeptide [Homo sapiens]
Official Symbol	ATP1B2
Synonyms	ATP1B2; ATPase, Na+/K+ transporting, beta 2 polypeptide; sodium/potassium-transporting ATPase subunit beta-2; AMOG; adhesion molecule on glia; Na, K-ATPase beta-2 polypeptide; sodium/potassium-dependent ATPase beta-2 subunit; sodium/potassium-dependent ATPase subunit beta-2; sodium/potassium-transporting ATPase beta-2 chain;
Gene ID	482
mRNA Refseq	NM_001678
Protein Refseq	NP_001669
MIM	182331
UniProt ID	P14415
Chromosome Location	17p13.1
Pathway	Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Basigin interactions, organism-specific biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Calcium Regulation in the Cardiac

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	Cell, organism-specific biosystem; Carbohydrate digestion and absorption, organism-specific biosystem;
Function	protein binding; sodium:potassium-exchanging ATPase activity;

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