

Recombinant Human ATP1B2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ATP1B2-2069H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATP1B2 MS Standard C13 and N15-labeled recombinant protein (NP_001669) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	33.4 kDa
AA Sequence	MVIQKEKKSCGQVVEEWKEFVWNPRTHQFMGRTGTSWAFILLFYLVFYGFLTAMFT

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LTMWVMLQTVSDHTPKYQDRLATPGLMIRPKTENLDVIVNVSDTESWDQHVQKLNK
 FLEPYNDSIQAQKNDVCRPGRYEYQPDNGVLNYPKRACQFNRTQLGNCSGIGDST
 HYGYSTGQPCVFIKMNRVINFYAGANQSMNVTCAGKRDEDAENLGNFVMFPANGNI
 DLMYFPYYGKKFHVNYTQPLVAVKFLNVTPNVEVNVECRINAANIATDDDERDKFAGR
 VAFKLRINKTTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [ATP1B2 ATPase Na⁺/K⁺ transporting subunit beta 2 \[Homo sapiens \(human\) \]](#)

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](#)

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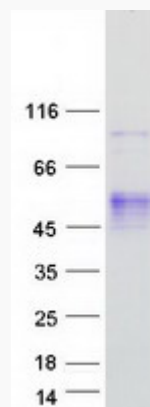
mRNA Refseq [NM_001678](#)

Protein Refseq [NP_001669](#)

MIM [182331](#)

UniProt ID [P14415](#)

SDS-PAGE



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