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Product Information

MemDX™ Membrane Protein Human ATP1B2 (ATPase Na+/K+ transporting subunit beta 2 expressed in *in vitro* wheat germ expression system) for Antibody Discovery

Cat. No.: **MP0074X**
This product is for research use only and is not intended for diagnostic use.

This product is a 59.8 kDa Human ATP1B2 membrane protein expressed in *in vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
ATP1B2

Protein Length
Full-length

Molecular Weight
59.8 kDa

TMD
1

Sequence
MVIQKEKKSCGQVVEEWKEFVWNPRTHQFMGRTGTSWAFILLFYLVFYGFLTAMFTLTMWVMLQTVSDHTPKYQDRLATPGLMIR

Product Description

Application
Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

Expression Systems
in vitro wheat germ expression system

Tag
GST-tag at N-terminal

Form
Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

ATP1B2

Full Name

ATPase Na+/K+ transporting subunit beta 2

Introduction

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

Alternative Names

ATPase; Na+/K+ transporting, beta 2 polypeptide; Na+/K+ -ATPase beta 2 subunit; Na, K-ATPase beta-2 polypeptide,adhesion molecule on glia; sodium/potassium-dependent ATPase beta-2 subunit; sodium/potassium-transporting ATPase beta-2 chain

Gene ID

482

UniProt ID

P14415

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