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# Product Information

## MemDX™ Membrane Protein Human ATP1B3 (ATPase Na+/K+ transporting subunit beta 3) without tag for Antibody Discovery

Cat. No.: **MP0075X**
This product is for research use only and is not intended for diagnostic use.

This product is a 31.5 kDa Human ATP1B3 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**
ATP1B3

**Protein Length**
Full-length

**Molecular Weight**
31.5 kDa

**TMD**
1

**Sequence**
MTKNEKKSLNQSLAEWKLFIYNPTTGEFLGRTAKSWGLILLFYLVFYGFLAALFSFTMWVMLQTLNDEVPKYRDQIPSPGLMVFPKP

## Product Description

**Application**
Antibody Production

**Expression Systems**
*in vitro* wheat germ expression system

**Tag**
NO

**Protein Format**
Liposome

**Form**


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Liquid

**Purification**

None

**Buffer**

25 mM Tris-HCl of pH8.0 containing 2% glycerol

**Storage**

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

## Target

**Target Protein**

ATP1B3

**Full Name**

ATPase Na+/K+ transporting subunit beta 3

**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 3 subunit. This gene encodes a beta 3 subunit. A pseudogene exists for this gene, and it is located on chromosome 2

**Alternative Names**

ATPB-3; CD298; FLJ29027; Na+/K+ -ATPase beta 3 subunit; Na, K-ATPase beta-3 polypeptide; sodium/potassium-dependent ATPase beta-3 subunit; sodium/potassium-transporting ATPase beta-3 chain

**Gene ID**

483

**UniProt ID**

P54709

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