

# Product Information

## MemDX™ Membrane Protein Human ATP4B (ATPase H<sup>+</sup>/K<sup>+</sup> transporting subunit beta) for Antibody Discovery

Cat. No.: **MP0080X**

This product is for research use only and is not intended for diagnostic use.

This product is a 57.75 kDa Human ATP4B 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

ATP4B

#### Protein Length

Full-length

#### Molecular Weight

57.75 kDa

#### TMD

1

#### Sequence

MAALQEKKTCGQRMEEFQRYCWNPDTGQMLGRTLRSRWWISLYYVAFYVVMTGLFALCLYVLMQTVDPYTPDYQDQLRSPGVTI

### 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**

ATP4B

**Full Name**

ATPase H<sup>+</sup>/K<sup>+</sup> transporting subunit beta

**Introduction**

The protein encoded by this gene belongs to a family of P-type cation-transporting ATPases. The gastric H<sup>+</sup>, K<sup>+</sup>-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<sup>(+)</sup> and K<sup>(+)</sup> ions across the plasma membrane. It is also responsible for gastric acid secretion. This gene encodes the beta subunit of the gastric H<sup>+</sup>, K<sup>+</sup>-ATPase

**Alternative Names**

ATP6B

**Gene ID**

[496](#)

**UniProt ID**

[P51164](#)