

# Product Information

## MemDX™ Membrane Protein Human ATP5B (ATP synthase F1 subunit beta) for Antibody

### Discovery

Cat. No.: **MP0082X**

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

This product is a 83 kDa Human ATP5B 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

ATP5B

#### Protein Length

Full-length

#### Molecular Weight

83 kDa

#### Sequence

MLGFVGRVAAAPASGALRRLTPSASLPPAQLLLRAAPTAVHPVRDYAAQTSPSPKAGAATGRIVAVIGAVVDVQFDEGLPPILNALE

### 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**

ATP5B

#### **Full Name**

ATP synthase F1 subunit beta

#### **Introduction**

This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the beta subunit of the catalytic core

#### **Alternative Names**

ATPMB; ATPSB; MGC5231; ATP synthase, H<sup>+</sup> transporting, mitochondrial F1 complex, beta subunit; mitochondrial ATP synthetase, beta subunit

#### **Gene ID**

[506](#)

#### **UniProt ID**

[P06576](#)