

Product Information

Magic™ Membrane Protein Human ATP5PB (ATP synthase peripheral stalk-membrane subunit b) for Antibody Discovery

Cat. No.: **MP0085X**

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

This product is a 55.3 kDa Human ATP5PB 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

ATP5PB

Protein Length

Full-length

Molecular Weight

55.3 kDa

Sequence

MLSRVVL SAAATAAPSLKNA AFLGPGVLQATRTFHTGQPHLVPVPPLPEYGGKVRYGLIPEEFFQFLYPKT
GVTGPYVLGTGLILYALSKEIYVISAETFTALSVLGVMVYGIKKYGPFVADFADKLNEQKLAQLEEAKQA
SIQHIQNAIDTEKSQQALVQKRHYLFDVQRNNIAMALEVTYRERLYRVYKEVKNRLDYHISVQNMRRKE
QEHMINWVEKHVVQSISTQQEKETIAKCIADLKLAKKAQAQPVM

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**

ATP5PB

Full Name

ATP synthase peripheral stalk-membrane subunit b

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, F_o, 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 seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the b subunit of the proton channel

Alternative Names

MGC24431; PIG47; ATP synthase B chain, mitochondrial; ATP synthase, H⁺ transporting, mitochondrial F₀ complex, subunit b, isoform 1; H⁺-ATP synthase subunit b; OTTHUMP00000013469; cell proliferation-inducing protein 47

Gene ID

[515](#)

UniProt ID

[P24539](#)