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Product Information

MemDX™ Membrane Protein Human ATP5MC3 (ATP synthase membrane subunit c locus 3) for Antibody Discovery

Cat. No.: **MP0088X**
This product is for research use only and is not intended for diagnostic use.

This product is a 41.1 kDa Human ATP5MC3 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
ATP5MC3

Protein Length
Full-length

Molecular Weight
41.1 kDa

TMD
2

Sequence
MFACAKLACTPSLIRAGSRVAYRPISASVLSRPEASRTGEGSTVFNGAQNGVSQLIQREFQTSAISRDIDTAAKFIGAGAATVGVAGS

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

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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

ATP5MC3

Full Name

ATP synthase membrane subunit c locus 3

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 seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene is one of three genes that encode subunit c of the proton channel. Each of the three genes have distinct mitochondrial import sequences but encode the identical mature protein. Alternatively spliced transcript variants encoding different proteins have been identified

Alternative Names

MGC125738; P3; ATP synthase lipid-binding protein, mitochondrial; ATP synthase proteolipid P3; ATP synthase subunit 9; ATP synthase, H+ transporting, mitochondrial F0 complex, subunit C3; ATP synthase, mitochondrial, C subunit-3; ATPase protein 9,ATPase subunit C

Gene ID

518

UniProt ID

P48201

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