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Product Information

MemDX™ Membrane Protein Human CYB5R3 (Cytochrome b5 reductase 3) for Antibody Discovery

Cat. No.: **MP0298X**
This product is for research use only and is not intended for diagnostic use.

This product is a 58.85 kDa Human CYB5R3 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
CYB5R3

Protein Length
Full-length

Molecular Weight
58.85 kDa

Sequence
MGAQLSTLGHMVLFPVWFLYSLLMKLFQRSTPAITLESPDIKYPLRLIDREIISHDTRRFRFALPSPQHILGLPVGQHIYLSARIDGNLV

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

CYB5R3

Full Name

Cytochrome b5 reductase 3

Introduction

This gene encodes cytochrome b5 reductase, which includes a membrane-bound form in somatic cells (anchored in the endoplasmic reticulum, mitochondrial and other membranes) and a soluble form in erythrocytes. The membrane-bound form exists mainly on the cytoplasmic side of the endoplasmic reticulum and functions in desaturation and elongation of fatty acids, in cholesterol biosynthesis, and in drug metabolism. The erythrocyte form is located in a soluble fraction of circulating erythrocytes and is involved in methemoglobin reduction. The membrane-bound form has both membrane-binding and catalytic domains, while the soluble form has only the catalytic domain. Alternate splicing results in multiple transcript variants. Mutations in this gene cause methemoglobinemias

Alternative Names

B5R; DIA1; NADH-cytochrome b5 reductase; OTTHUMP00000028761; cytochrome b5 reductase; diaphorase (NADH) (cytochrome b-5 reductase)

Gene ID

1727

UniProt ID

P00387