

Product Information

MemDX™ Membrane Protein Human COX5A (Cytochrome c oxidase subunit 5A) Expressed in *E.coli* for Antibody Discovery, Partial (42-150aa)

Cat. No.: **MPX0112K**

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

This product is a 15 kDa Human COX5A membrane protein expressed in *E.coli*. 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

COX5A

Protein Length

Partial (42-150aa)

Protein Class

Transporter

Molecular Weight

15 kDa

Sequence

MGSSHHHHHHSSGLVPRGSHMGSSHGSQETDEEFDARWVITYFNKPDIDAWELRKGINTLVITYDMVPEPKIIDAALRACRRLNDF

Product Description

Expression Systems

E.coli

Tag

His tag at the N-terminus

Protein Format

Soluble

Form

Liquid

Purity

> 95% SDS-PAGE

Buffer

pH: 8.00, Constituents: 0.03% DTT, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

COX5A

Full Name

Cytochrome c oxidase subunit 5A

Introduction

Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer of proton pumping activities. The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit Va of the human mitochondrial respiratory chain enzyme. A pseudogene COX5AP1 has been found in chromosome 14q22.

Alternative Names

COX5A; VA; COX; COX-VA; MC4DN20; cytochrome c oxidase subunit 5A, mitochondrial; cytochrome c oxidase polypeptide Va; cytochrome c oxidase polypeptide, mitochondrial; cytochrome c oxidase subunit Va; mitochondrial cytochrome c oxidase subunit Va; Cytochrome c oxidase subunit 5A

Gene ID

[9377](#)

UniProt ID

[P20674](#)