

Product Information

MemDX™ Membrane Protein Human CYBB (Cytochrome b-245 beta chain) Expressed *in vitro* E.coli expression system, Full Length of Mature Protein

Cat. No.: **MPX2824K**

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

This product is a Human CYBB membrane protein expressed *in vitro* E.coli 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

CYBB

Protein Length

Full Length of Mature Protein

Protein Class

Ion channel, Transport

TMD

6

Sequence

GNWAVNEGLSIFVILVWLGLNVFLFVWYYRVYDIPPKFFYTRKLLGSALALARAPAAACLNFNCMILLPVCRNLLSFLRGSSACCSTR

Product Description

Expression Systems

in vitro E.coli expression system

Tag

10xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

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

CYBB

Full Name

Cytochrome b-245 beta chain

Introduction

Cytochrome b (-245) is composed of cytochrome b alpha (CYBA) and beta (CYBB) chain. It has been proposed as a primary component of the microbicidal oxidase system of phagocytes. CYBB deficiency is one of five described biochemical defects associated with chronic granulomatous disease (CGD). In this disorder, there is decreased activity of phagocyte NADPH oxidase; neutrophils are able to phagocytize bacteria but cannot kill them in the phagocytic vacuoles. The cause of the killing defect is an inability to increase the cell's respiration and consequent failure to deliver activated oxygen into the phagocytic vacuole.

Alternative Names

CYBB; CGD; CGDX; NOX2; IMD34; AMCBX2; GP91-1; GP91PHOX; p91-PHOX; GP91-PHOX; cytochrome b-245 heavy chain; CGD91-phox; NADPH oxidase 2; cytochrome b(558) subunit beta; cytochrome b-245 beta polypeptide; cytochrome b558 subunit beta; heme-binding membrane glycoprotein gp91phox; neutrophil cytochrome b 91 kDa polypeptide; p22 phagocyte B-cytochrome; superoxide-generating NADPH oxidase heavy chain subunit; Cytochrome b-245 beta chain

Gene ID

[1536](#)

UniProt ID

[P04839](#)