

Product Information

MemDX™ Membrane Protein Human CYBB (Cytochrome b-245 beta chain) expressed in E.coli for Antibody Discovery

Cat. No.: **MP1385J**

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

This product is a 49.2 kDa Human CYBB 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

CYBB

Protein Length

Partial (283-570aa)

Protein Class

Ion Channel

Molecular Weight

49.2 kDa

Sequence

ERLVRFWRSQQKVVITKVVTHPFKTIELQMKKKGFKMEVGQYIFVKCPKVSLEWHPFTLTSAPEEDFFSIHIRIVGDWTEGLFNAC

Product Description

Expression Systems

E.coli

Tag

N-6xHis-SUMO

Form

Liquid or Lyophilized powder

Reconstitution

Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration).

Purity

>85% as determined by SDS-PAGE

Buffer

Liquid: Tris/PBS-based buffer, 5%-50% glycerol

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

Storage

Store at +4°C for up to one week or several months at -80°C

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

AMCBX2; CGD; CGD91-phox; CY24B_HUMAN; CYBB; Cytochrome b 245; beta polypeptide; Cytochrome b(558) beta chain; Cytochrome b(558) subunit beta; Cytochrome b-245 heavy chain; Cytochrome b558 subunit beta; GP91 PHOX; gp91-1; gp91-phox; GP91PHOX; Heme-binding membrane glycoprotein gp91phox; NADPH oxidase 2; Neutrophil cytochrome b 91 kDa polypeptide; NOX2; p22 phagocyte B-cytochrome; P91 PHOX; p91-PHOX; Superoxide-generating NADPH oxidase heavy chain subunit

Gene ID

[1536](#)

UniProt ID

[P04839](#)