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Product Information

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

Cat. No.: **MP1383J**
This product is for research use only and is not intended for diagnostic use.

This product is a 35.2 kDa Human CYBB membrane protein expressed in Yeast. 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
35.2 kDa

Sequence
ERLVRFWRSQQKVVITKVVTHPFKTIELQMKKKGFKMEVGQYIFVKCPKVSKLEWHPFTLTSAPEEDFFSIHIRIVGDWTEGLFNACG

Product Description

Expression Systems
Yeast

Tag
N-6xHis

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