SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Membrane Protein Human CYBB (Cytochrome b-245 beta chain) Expressed in Yeast with 6xHis tag at the N-terminus for Antibody Discovery, Partial (283-570aa)

Cat. No.: **MPX4664K**
This product is for research use only and is not intended for diagnostic use.

This product is a 35.2kDa 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
Transporter; Ion channel

Molecular Weight
35.2kDa

TMD
6

Sequence
ERLVRFWRSQQKVVITKVVTHPFKTIELQMKKKGFKMEVGQYIFVKCPKVSKLEWHPFTLTSAPEEDFFSIHIRIVGDWTEGLFNACG

Product Description

Expression Systems
Yeast

Tag
6xHis tag at the N-terminus

Protein Format
Soluble

Form

Liquid or Lyophilized powder

Purity

>90% as determined by SDS-PAGE

Buffer

Tris-based buffer, 50% glycerol

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

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; CYBB; Cytochrome b-245 beta chain

Gene ID

1536

UniProt ID

P04839

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