

Product Information

MemDX™ Membrane Protein Mouse Cybb (Cytochrome b-245, beta polypeptide) Expressed *in vitro* E.coli expression system, Full Length

Cat. No.: **MPX2825K**

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

This product is a Mouse 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

Mouse

Target Protein

Cybb

Protein Length

Full Length

Protein Class

Ion channel, Transport

TMD

6

Sequence

MGNWAVNEGLSIFVILVWLGLNVFLFINYYKVYDDGPKYNYTRKLLGSALALARAPAAACLNFNCMILLPVCRNLLSFLRGSSACCST

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 polypeptide

Introduction

This gene encodes the heavy chain component of a heterodimeric transmembrane ion transporter composed of both a heavy and a light chain. This transporter mediates the transfer of electrons from nicotinamide adenine dinucleotide phosphate (NADPH) to oxygen to generate superoxide. This reaction is important in the innate immune response to pathogens. However, increased activity of the encoded protein also leads to the generation of reactive oxygen species that result in oxidative stress and can cause tissue damage. Conversely, loss of function of the related gene in human causes chronic granulomatous disease. Alternative splicing results in multiple transcript variants, although the full-length nature of some of these variants has not been determined.

Alternative Names

Cybb; No; Cgd; Cyd; Nox2; gp91p; C88302; gp91-1; gp91<ph; gp91phox; CGD91-phox; cytochrome b-245 heavy chain; NADPH oxidase 2; cytochrome b558 subunit beta; heme-binding membrane glycoprotein gp91phox; neutrophil cytochrome b 91 kDa polypeptide; p22 phagocyte B-cytochrome; Cytochrome b-245, beta polypeptide</td>

Gene ID

[13058](#)

UniProt ID

[Q61093](#)