Recombinant Human CYBB

Cat. No. CYBB-30450TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human NOX2/gp91phox with proprietary tag at the N terminal; Predicted MW 31.35 kDa, inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	52 amino acids
Description	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 cells respiration and consequent failure to deliver activated oxygen into the phagocytic vacuole.
Molecular Weight	31.350kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	LFNVEWCVNARVNNSDPYSVALSELGDRQNESYLNFARKRIKNPEGGLYLAV
Sequence Similarities	Contains 1 FAD-binding FR-type domain.Contains 1 ferric oxidoreductase domain.

GENE INFORMATION

Gene Name	CYBB cytochrome b-245, beta polypeptide [Homo sapiens]
Official Symbol	CYBB
Synonyms	CYBB; cytochrome b-245, beta polypeptide; CGD, chronic granulomatous disease; cytochrome b-245 heavy chain; GP91 PHOX; NOX2;
Gene ID	1536
mRNA Refseq	NM_000397
Protein Refseq	NP_000388
MIM	300481
Uniprot ID	P04839
Chromosome Location	Xp21.1
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing-Cross

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	presentation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Cross-presentation of particulate exogenous antigens (phagosomes), organism-specific biosystem;
Function	contributes_to electron carrier activity; flavin adenine dinucleotide binding; heme binding; metal ion binding; oxidoreductase activity;

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