

Recombinant Human CYBB 293 Cell Lysate

Cat. No. CYBB-7138HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for cytochrome b-245, beta polypeptide (CYBB) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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; CGD91-phox; NADPH oxidase 2; p22 phagocyte B-cytochrome; cytochrome b558 subunit beta; cytochrome b(558) subunit beta; neutrophil cytochrome b 91 kDa polypeptide; heme-binding membrane glycoprotein gp91phox; superoxide-generating NADPH oxidase heavy chain subunit; CGD; AMCBX2; GP91-1; GP91PHOX; p91-PHOX; GP91-PHOX;

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 and presentation, organism-specific biosystem; Cross-presentation of particulate exogenous antigens (phagosomes), organism-specific biosystem; Immune System, organism-specific biosystem; Leukocyte transendothelial migration, organism-specific biosystem;

Function

contributes_to electron carrier activity; flavin adenine dinucleotide binding; heme binding; metal ion binding; oxidoreductase activity; protein binding; protein heterodimerization activity; contributes_to superoxide-generating NADPH oxidase activity; superoxide-generating NADPH oxidase activity; voltage-gated ion channel activity;