

Recombinant Human CYBB 293 Cell Lysate

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

SPECIFICATION

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.
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

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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 presentation, organism-specific biosystem; Class I MHC mediated antigen processing and presentation, organism-specific biosystem; Cross-presentation of particulate

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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;

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