

Recombinant Human CYBA 293 Cell Lysate

Cat. No. CYBA-7139HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for cytochrome b-245, alpha polypeptide (CYBA) 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

CYBA cytochrome b-245, alpha polypeptide [Homo sapiens]

Official Symbol

CYBA

Synonyms

CYBA; cytochrome b-245, alpha polypeptide; cytochrome b-245 light chain; flavocytochrome b 558 alpha polypeptide; p22 PHOX; p22phox; cytochrome b light chain; p22 phagocyte B-cytochrome; cytochrome b(558) alpha chain; cytochrome b558 subunit alpha; cytochrome b(558) alpha-subunit; cytochrome b, alpha polypeptide; flavocytochrome b-558 alpha polypeptide; neutrophil cytochrome b 22 kDa polypeptide; superoxide-generating NADPH oxidase light chain subunit; p22-PHOX; FLJ43590; FLJ99071;

Gene ID

1535

mRNA Refseq

NM_000101

Protein Refseq

NP_000092

UniProt ID

P13498

Chromosome Location

16q24

Pathway

Adaptive Immune System, organism-specific biosystem; Antigen processing-Cross presentation, organism-specific biosystem; Class I MHC mediated antigen processing

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

Function

SH3 domain binding; electron carrier activity; electron carrier activity; heme binding; metal ion binding; oxidoreductase activity; protein binding; protein heterodimerization activity; contributes_to superoxide-generating NADPH oxidase activity;

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