

## Recombinant Human CYBA 293 Cell Lysate

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

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Components</b>	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).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	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.
<b>Applications</b>	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** 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 and presentation, organism-specific biosystem; Cross-presentation of particulate exogenous antigens (phagosomes), organism-specific biosystem; Immune System,

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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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