

Recombinant Human PRDX5 293 Cell Lysate

Cat. No. PRDX5-2878HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for peroxiredoxin 5 (PRDX5), nuclear gene encoding mitochondrial protein, transcript variant 1 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

[PRDX5 peroxiredoxin 5 \[Homo sapiens \]](#)

Official Symbol

PRDX5

Synonyms

PRDX5; peroxiredoxin 5; peroxiredoxin-5, mitochondrial; ACR1; Alu co repressor 1; antioxidant enzyme B166; AOEB166; B166; liver tissue 2D page spot 71B; MGC117264; MGC142283; MGC142285; peroxisomal antioxidant enzyme; PLP; PMP20; PRDX6; PRXV; SBB110; thioredoxin peroxidase PMP20; TPx type VI; prx-V; peroxiredoxin V; alu corepressor 1; Alu co-repressor 1; thioredoxin reductase; liver tissue 2D-page spot 71B;

Gene ID

[25824](#)

mRNA Refseq

[NM_012094](#)

Protein Refseq

[NP_036226](#)

MIM

[606583](#)

UniProt ID

[P30044](#)

**Chromosome
Location**

11q13

Pathway

Peroxisome, organism-specific biosystem; Peroxisome, conserved biosystem;

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Selenium Pathway, organism-specific biosystem;

Function

cysteine-type endopeptidase inhibitor activity involved in apoptotic process;
oxidoreductase activity; peroxidase activity; peroxiredoxin activity;

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