Recombinant Human PRDX1 293 Cell Lysate

Cat. No. PRDX1-2882HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for peroxiredoxin 1 (PRDX1), transcript variant 2 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	PRDX1 peroxiredoxin 1 [Homo sapiens]
Official Symbol	PRDX1
Synonyms	PRDX1; peroxiredoxin 1; PAGA; peroxiredoxin-1; NKEFA; NKEF-A; thioredoxin peroxidase 2; proliferation-associated gene A; natural killer-enhancing factor A; proliferation-associated gene protein; natural killer cell-enhancing factor A; thioredoxin-dependent peroxide reductase 2; PAG; PAGB; PRX1; PRXI; MSP23; TDPX2;
Gene ID	5052
mRNA Refseq	NM_181696
Protein Refseq	NP_859047
MIM	176763
UniProt ID	Q06830
Chromosome Location	1p34.1
Pathway	Coregulation of Androgen receptor activity, organism-specific biosystem; Peroxisome, organism-specific biosystem; Peroxisome, conserved biosystem; Selenium Pathway,

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	organism-specific biosystem;
Function	oxidoreductase activity; peroxidase activity; protein binding; thioredoxin peroxidase activity;

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