Recombinant Human POR 293 Cell Lysate

Cat. No. POR-3006HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for P450 (cytochrome) oxidoreductase (POR) 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	POR P450 (cytochrome) oxidoreductase [Homo sapiens]
Official Symbol	POR
Synonyms	POR; P450 (cytochrome) oxidoreductase; NADPH--cytochrome P450 reductase; CYPOR; FLJ26468; NADPH-dependent cytochrome P450 reductase; CPR; P450R; DKFZp686G04235;
Gene ID	5447
mRNA Refseq	NM_000941
Protein Refseq	NP_000932
MIM	124015
UniProt ID	P16435
Chromosome Location	7q11.2
Pathway	1,25-dihydroxyvitamin D3 biosynthesis, organism-specific biosystem; 1,25-dihydroxyvitamin D3 biosynthesis, conserved biosystem; melatonin degradation I, organism-specific biosystem; melatonin degradation I, conserved biosystem; superpathway of melatonin degradation, conserved biosystem; superpathway of melatonin degradation, organism-specific biosystem;

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Function	FMN binding; NADP binding; NADPH-hemoprotein reductase activity; NADPH-hemoprotein reductase activity; cytochrome-b5 reductase activity; electron carrier activity; enzyme binding; flavin adenine dinucleotide binding; hydrolase activity; iron ion binding; iron-cytochrome-c reductase activity; oxidoreductase activity;

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