

Recombinant Human POR 293 Cell Lysate

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

SPECIFICATION

Product Overview

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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

melatonin degradation, organism-specific biosystem;

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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA