Recombinant Human CRY1 293 Cell Lysate

Cat. No. CRY1-7269HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for cryptochrome 1 (photolyase-like) (CRY1) 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	CRY1 cryptochrome 1 (photolyase-like) [Homo sapiens]
Official Symbol	CRY1
Synonyms	CRY1; cryptochrome 1 (photolyase-like); PHLL1; cryptochrome-1; photolyase-like cryptochrome 1;
Gene ID	1407
mRNA Refseq	NM_004075
Protein Refseq	NP_004066
MIM	601933
UniProt ID	Q16526
Chromosome Location	12q23-q24.1
Pathway	BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian rhythm - mammal, organism-specific biosystem; Circadian rhythm - mammal, conserved biosystem; Diurnally regulated genes with circadian orthologs, organism-specific biosystem;

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Function	NOT DNA (6-4) photolyase activity; DNA binding; blue light photoreceptor activity; NOT deoxyribodipyrimidine photo-lyase activity; double-stranded DNA binding; nucleotide binding; protein binding; protein binding transcription factor activity; protein kinase binding; receptor activity;

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