

Recombinant Human PRKG1 293 Cell Lysate

Cat. No. PRKG1-2850HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for protein kinase, cGMP-dependent, type I (PRKG1), 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.
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	PRKG1 protein kinase, cGMP-dependent, type I [Homo sapiens]
Official Symbol	PRKG1
Synonyms	PRKG1; protein kinase, cGMP-dependent, type I; PRKG1B, PRKGR1B; cGMP-dependent protein kinase 1; PGK; PKG; protein kinase, cGMP-dependent, regulatory, type I, beta; 1; cGK; cGK1; cGKI; cGK 1; PRKG1B; PRKGR1B; cGKI-BETA; cGKI-alpha; FLJ36117; MGC71944; DKFZp686K042;
Gene ID	5592
mRNA Refseq	NM_001098512
Protein Refseq	NP_001091982
MIM	176894
UniProt ID	Q13976
Chromosome Location	10q11.2
Pathway	Adaptive Immune System, organism-specific biosystem; Gap junction, organism-specific biosystem; Gap junction, conserved biosystem; Hemostasis, organism-specific biosystem; Immune System, organism-specific biosystem; Long-term depression, organism-specific biosystem; Long-term depression, conserved biosystem;

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Function

ATP binding; cGMP binding; cGMP-dependent protein kinase activity; calcium channel regulator activity; nucleotide binding; protein binding; protein serine/threonine kinase activity;

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