

Recombinant Human PRKG2 293 Cell Lysate

Cat. No. PRKG2-2849HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for protein kinase, cGMP-dependent, type II (PRKG2) 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

PRKG2 protein kinase, cGMP-dependent, type II [Homo sapiens]

Official Symbol

PRKG2

Synonyms

PRKG2; protein kinase, cGMP-dependent, type II; cGMP-dependent protein kinase 2; cGKII; PRKGR2; cGK2; cGK 2; cGMP-dependent protein kinase II;

Gene ID

5593

mRNA Refseq

NM_006259

Protein Refseq

NP_006250

MIM

601591

UniProt ID

Q13237

**Chromosome
Location**

4q13.1-q21.1

Pathway

Gap junction, organism-specific biosystem; Gap junction, conserved biosystem; Hemostasis, organism-specific biosystem; Long-term depression, organism-specific biosystem; Long-term depression, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of nitric oxide, organism-specific biosystem;

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Function

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

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