

## Recombinant Human PRKAR2A 293 Cell Lysate

**Cat. No.** PRKAR2A-2861HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for protein kinase, cAMP-dependent, regulatory, type II, alpha (PRKAR2A) 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.
<b>Components</b>	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).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	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.
<b>Applications</b>	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** PRKAR2A protein kinase, cAMP-dependent, regulatory, type II, alpha [ Homo sapiens ]

**Official Symbol** PRKAR2A

**Synonyms** PRKAR2A; protein kinase, cAMP-dependent, regulatory, type II, alpha; PRKAR2; cAMP-dependent protein kinase type II-alpha regulatory subunit; protein kinase A, RII-alpha subunit; cAMP-dependent protein kinase regulatory subunit RII alpha; PKR2; MGC3606;

**Gene ID** [5576](#)

**mRNA Refseq** [NM\\_004157](#)

**Protein Refseq** [NP\\_004148](#)

**MIM** [176910](#)

**UniProt ID** [P13861](#)

**Chromosome Location** 3p21.3-p21.2

**Pathway** Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Aquaporin-mediated transport, organism-specific biosystem; Ca-dependent events, organism-specific biosystem; CaM pathway, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Calmodulin induced events,

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organism-specific biosystem;

**Function**

cAMP binding; cAMP-dependent protein kinase regulator activity; cAMP-dependent protein kinase regulator activity; kinase activity; nucleotide binding; protein domain specific binding; protein homodimerization activity; ubiquitin protein ligase binding;

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