Recombinant Human PRKAR2A 293 Cell Lysate

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

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	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.
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	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-

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	specific biosystem; CaM pathway, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Calmodulin induced events, 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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