

Recombinant Human PRKACA cell lysate

Cat. No. PRKACA-1415HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is a member of the Ser/Thr protein kinase family and is a catalytic subunit of cAMP-dependent protein kinase. Alternatively spliced transcript variants encoding distinct isoforms have been observed.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	PRKACA protein kinase, cAMP-dependent, catalytic, alpha [Homo sapiens]
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Official Symbol	PRKACA
Synonyms	PRKACA; protein kinase, cAMP-dependent, catalytic, alpha; cAMP-dependent protein kinase catalytic subunit alpha; PKACa; PKA C-alpha; protein kinase A catalytic subunit; cAMP-dependent protein kinase catalytic subunit alpha, isoform 1; PKACA; MGC48865; MGC102831;
Gene ID	5566
mRNA Refseq	NM_002730
Protein Refseq	NP_002721
MIM	601639
UniProt ID	P17612
Chromosome Location	19p13.1
Pathway	Adaptive Immune System, organism-specific biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem;
Function	ATP binding; cAMP-dependent protein kinase activity; cAMP-dependent protein kinase activity; nucleotide binding; protein binding; protein kinase binding; protein serine/threonine kinase activity; ubiquitin protein ligase binding;

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