Recombinant Full Length Human PRKACA, GST-tagged, Active

Cat. No. PRKACA-394H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human full-length PKAcalpha was expressed by baculovirus in*Sf9 cell*susing an N-terminal GST tag. MW=69 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	1-351 a.a.
Description	The catalytic subunit C-alpha of PKA (PKAcα) is a member of the Ser/Thr protein kinase family and has been assigned to chromosome region 19p13.1. Null mutation in PKAcα leads to early postnatal lethality in the majority of C-alpha knockout mice. Surprisingly, a small percentage of C-alpha knockout mice, although runted, survived to adulthood. In these animals, compensatory increases in C-beta levels occurred in brain whereas many tissues, including skeletal muscle, heart, and sperm, contained less than 10% of the normal PKA activity.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

Gene Name	PRKACA protein kinase, cAMP-dependent, catalytic, alpha [Homo sapiens]
Synonyms	PRKACA; protein kinase, cAMP-dependent, catalytic, alpha; PKACA; MGC48865; MGC102831; PKACa; cAMP-dependent protein kinase catalytic subunit alpha; EC 2.7.11.11; PKA C-alpha
Gene ID	5566
mRNA Refseq	NM_002730
Protein Refseq	NP_002721
UniProt ID	P17612
Chromosome Location	19p13.1
MIM	601639
Pathway	Apoptosis; Calcium signaling pathway; Chemokine signaling pathway; Dilated cardiomyopathy; Gap junction; GnRH signaling pathway; Hedgehog signaling pathway; Insulin signaling pathway; Melanogenesis; Long-term potentiation; Progesterone-mediated oocyte maturation; Wnt signaling pathway; Vibrio cholerae infection
Function	ATP binding; nucleotide binding; transferase activity; cAMP-dependent protein kinase activity; cAMP-dependent protein kinase inhibitor activity; protein serine/threonine kinase activity; protein kinase binding

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