

## Recombinant Full Length Human PRKACA, GST-tagged, Active

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

### SPECIFICATION

#### Product Overview

Recombinant human full-length PKA $\alpha$  was expressed by baculovirus in *Sf9* cell using an N-terminal GST tag. MW=69 kDa.

#### Species

Human

#### Source

Sf9 Cells

#### Protein Length

1-351 a.a.

#### Description

The catalytic subunit C- $\alpha$  of PKA (PKA $\alpha$ ) is a member of the Ser/Thr protein kinase family and has been assigned to chromosome region 19p13.1. Null mutation in PKA $\alpha$  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  $-70^{\circ}\text{C}$ . 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

<b>Gene Name</b>	PRKACA protein kinase, cAMP-dependent, catalytic, alpha [ Homo sapiens ]
<b>Synonyms</b>	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
<b>Gene ID</b>	5566
<b>mRNA Refseq</b>	NM_002730
<b>Protein Refseq</b>	NP_002721
<b>UniProt ID</b>	P17612
<b>Chromosome Location</b>	19p13.1
<b>MIM</b>	601639
<b>Pathway</b>	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
<b>Function</b>	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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