

Full-Length

PRKCA (Human) Recombinant Protein (P01)

Catalog # H00005578-P01

Size 50 ug

Specification

Product Description	Human PRKCA full-length ORF (NP_002728.1, 1 a.a. - 672 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MADVFP GNDSTASQDVANRFARKGALRQKNVHEVKD HKFIARFFKQPTFC SHCTDFIWGF GKQ GFQCQVCCFVVHKRCHEFVTFSCPGADKGPDTDDPRSKHKFKIHTYGSPTFCDHCGSLLYGLIH QGMKCDTCDMNVHKQCVINVPSLCGMDHTEKRGRMYLKA EVADEKLHVTVRDAKNLIPMDPNGL SDPYVKLKLIPDPKNESKQKTKTIRSTLNPQWNESFTFKLKPSDKDRRLSVEIWDWDRTRNDFM GSLSFVSELMKMPASGWYKLLNQEEGEYNNVPIPEGDEEGNMELRQKFEKAKLGPAGNKVISP SEDRKQPSNNLDRVKLTDNFNLMVLGKGSFGKVMLADRKGT EELYAIKILKDVVIQDDDVECTM VEKRVLALLDKPPFLTQLHSCFQTVDRLYFVMEYVNGGDL MYHIQQVGKFKEPQAVFYAAEISIGL FFLHKRGIYRDLKLDNVMLDSEGHIA DFGMCKEHMMDGVTT RTFCGTPDYIAPEIIAYQPYGKSV DWWAYGVLLYEMLAGQPPFDGEDEDELFSIMEHNVSYPKSLSKEAVSICKGLMTKHPAKRLGC GPEGERDVREHAFFRRIDWEKLENREIQPPFKPKVCGKGAENFDKFFTRGQPVLTPPDQLVIANI DQSDFEFGFSYVNPQFVHPILQSAV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	103.2
Interspecies Antigen Sequence	Mouse (99); Rat (94)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PRKCA

Entrez GeneID [5578](#)

GeneBank Accession# [NM_002737.2](#)

Protein Accession# [NP_002728.1](#)

Gene Name PRKCA

Gene Alias AAG6, MGC129900, MGC129901, PKC-alpha, PKCA, PRKACA

Gene Description protein kinase C, alpha

Omim ID [176960](#)

Gene Ontology [Hyperlink](#)

Gene Summary Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. The protein encoded by this gene is one of the PKC family members. This kinase has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle checkpoint, and cell volume control. Knockout studies in mice suggest that this kinase may be a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes. [provided by RefSeq]

Other Designations aging-associated gene 6|protein kinase C alpha type

Pathway

- [Calcium signaling pathway](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)

- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [Gap junction](#)
- [Glioma](#)
- [GnRH signaling pathway](#)
- [Leukocyte transendothelial migration](#)
- [Long-term depression](#)
- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [Melanogenesis](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Non-small cell lung cancer](#)
- [Pathogenic Escherichia coli infection - EHEC](#)
- [Pathways in cancer](#)
- [Phosphatidylinositol signaling system](#)
- [Tight junction](#)
- [Vascular smooth muscle contraction](#)
- [VEGF signaling pathway](#)
- [Vibrio cholerae infection](#)
- [Wnt signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Asthma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)

- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Liver Cirrhosis](#)
- [Mental Disorders](#)
- [Multiple Sclerosis](#)
- [Obesity](#)
- [Pancreatic Neoplasms](#)
- [Premature Birth](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)
- [Vaginosis](#)