

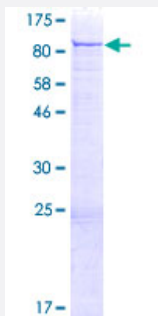
Full-Length

PRKCB1 (Human) Recombinant Protein (P01)

Catalog # H00005579-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PRKCB1 full-length ORF (NP_997700.1, 1 a.a. - 671 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MADPAAGPPPSEGEESTVRFARKGALRQKNVHEVKNHKFTARFFKQPTFCSHCTDFWGFQKQ
GFQCQVCCFVVHKRCHEFVTFSCPGADKGPASDDPRSKHKFKIHTYSSPTFCDHCGSLLYGLIH
QGMKCDTCMMNVHKRCVMNVPSLCGTDHTERRGRYQAHIDRDVLVLVRDAKNLVPMDPNGLS
DPYVKLKLIPDKSESKQKTKIKCSLNPEWNETFRFQLKESDKDRRLSVEIWDWDLTSRNDFMG
SLSFGISELQKASVDGWFKLLSQEEGEYFNVPVPEGSEANEELRQKFERAKISQGTKVPEEKTT
NTVSKFDNNGNRDRMKLTDNFNLMVLGKGSFGKVMLSERKGTDELYAVKILKKDVVIQDDDDVEC
TMVEKRVLALPGKPPFLTQLHSCFQTMDRLYFVMEYVNGGDLMYHIQVGRFKEPHAVFYAAEIAI
GLFFLQSKGIYRDLKLDNVMLDSEGHKIADFGMCKENWDGVTTKTFCGTPDYAPEIIAYQPYGKS
VDWWAFGVLLYEMLAGQAPFEGEDEDELFSIMEHNVAYPKSMSKEAVAICKGLMTKHPGKRL
GCGPEGERDIKEHAFFRYIDWEKLERKEIQPPYKPKARDKRDTSNFDKEFTRPVELTPTDKLFIM
NLDQNEFAGFSYTNPEFVINV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

103.3

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

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 — PRKCB

Entrez GeneID	5579
GeneBank Accession#	NM_212535.1
Protein Accession#	NP_997700.1
Gene Name	PRKCB
Gene Alias	MGC41878, PKC-beta, PKCB, PRKCB1, PRKCB2
Gene Description	protein kinase C, beta
Omim ID	176970
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 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 protein kinase has been reported to be involved in many different cellular functions, such as B cell activation, apoptosis induction, endothelial cell proliferation, and intestinal sugar absorption. Studies in mice also suggest that this kinase may also regulate neuronal functions and correlate fear-induced conflict behavior after stress. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]
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Other Designations

protein kinase C, beta 1 polypeptide

Pathway

- [B cell receptor signaling pathway](#)
- [Calcium signaling pathway](#)
- [Chemokine 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](#)
- [Pathways in cancer](#)
- [Phosphatidylinositol signaling system](#)
- [Tight junction](#)
- [Vascular smooth muscle contraction](#)
- [VEGF signaling pathway](#)
- [Vibrio cholerae infection](#)

- [Wnt signaling pathway](#)

Disease

- [Albuminuria](#)
- [Autistic Disorder](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Diabetic Nephropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Edema](#)
- [Epilepsies](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Proteinuria](#)
- [Syndrome](#)
- [Tobacco Use Disorder](#)