Recombinant Full Length Human PRKCB Protein, C-Flag-tagged

Cat. No. PRKCB-1750HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PRKCB Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	76.8 kDa
AA Sequence	MADPAAGPPPSEGEESTVRFARKGALRQKNVHEVKNHKFTARFFKQPTFCSHCTD FIWGFGKQGFQCQVC CFVVHKRCHEFVTFSCPGADKGPASDDPRSKHKFKIHTYS SPTFCDHCGSLLYGLIHQGMKCDTCMMNVH KRCVMNVPSLCGTDHTERRGRIYIQ AHIDRDVLIVLVRDAKNLVPMDPNGLSDPYVKLKLIPDPKSESKQ KTKTIKCSLNPEW NETFRFQLKESDKDRRLSVEIWDWDLTSRNDFMGSLSFGISELQKASVDGWFKLLS Q EEGEYFNVPVPPEGSEANEELRQKFERAKISQGTKVPEEKTTNTVSKFDNNGNR DRMKLTDFNFLMVLGK GSFGKVMLSERKGTDELYAVKILKKDVVIQDDDVECTMVE KRVLALPGKPPFLTQLHSCFQTMDRLYFVM EYVNGGDLMYHIQQVGRFKEPHAVF YAAEIAIGLFFLQSKGIIYRDLKLDNVMLDSEGHIKIADFGMCKE NIWDGVTTKTFCGT PDYIAPEIIAYQPYGKSVDWWAFGVLLYEMLAGQAPFEGEDEDELFQSIMEHNVAY PKSMSKEAVAICKGLMTKHPGKRLGCGPEGERDIKEHAFFRYIDWEKLERKEIQPPY KPKACGRNAENFD RFFTRHPPVLTPPDQEVIRNIDQSEFEGFSFVNSEFLKPEVKSTRTRPLEQKLISEED LAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase

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Protein Pathways	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
Full Length	Full L.

GENE INFORMATION

Gene Name	PRKCB protein kinase C beta [Homo sapiens (human)]
Official Symbol	PRKCB
Synonyms	PKCB; PRKCB1; PRKCB2; PKCI(2); PKCbeta; PKC-beta
Gene ID	5579
mRNA Refseq	NM_002738.7
Protein Refseq	NP_002729.2
MIM	176970
UniProt ID	P05771

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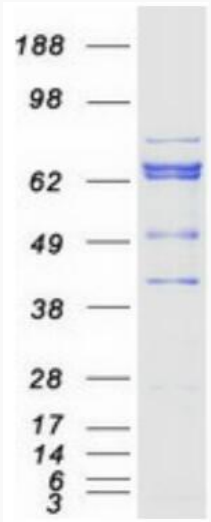

Coomassie blue staining of purified PRKCB protein.

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