

Homo sapiens protein kinase C, beta (PRKCB), transcript variant 2**Product Id:** SC118454**Vector:** pCMV6-XL5 **Insert Size:** 2900 **Restriction Site:** NotI-NotI**OTI****Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Product Components:

The cDNA clone is shipped in a 2-D bar-coded Matrix tube as dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials. Every lot of primer is tested to provide clean sequencing of TrueClones.

Protein Families:

Protein KinaseDruggable Genome

Protein Pathways:

MAPK signaling pathwayErbB signaling pathwayCalcium signaling pathwayChemokine signaling pathwayPhosphatidylinositol signaling systemVascular smooth muscle contractionMore Pathways

Reference Data

RefSeq: NM_002738.5,
NP_002729**RefSeq Size:** 3411**RefSeq ORF:** 2022

Synonyms : MGC41878; PKC-beta; PKCB; PRKCB1; PRKCB2; PKC-beta; PKCB; PRKCB1; PRKCB2; protein kinase C, beta 1 polypeptide; protein kinase C, beta

LocusID: 5579**Cytogenetic:** 16p11.2

Domains: C2, pkinase_C, TyrKc, C1, S_TKc

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].

Transcript Variant: This variant (2) represents the longer transcript and encodes the longer isoform (2).

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