

Product datasheet for **TP305669**

CAMK2B (NM_172081) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human calcium/calmodulin-dependent protein kinase II beta (CAMK2B), transcript variant 5, 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC205669 protein sequence
Red=Cloning site **Green**=Tags(s)

MATTVTCTRFTDEYQLYEDIGKGAFSVRRVCVKLCTGHEYAAKIINTKKLSARDHQKLREARICRLLKH
SNIVRLHDSISEEGFHLYVFDLVTGGELFEDIVAREYSEADASHCIQQILEAVLHCHQMGVVHRDLKPE
NLLLASKCKGAAVKLADFGLAIEVQGDQQA WFGFAGTPGYLSPEVLRKEAYGKPVDIWACGVILYILLVG
YPPFWDEDQHKLYQQIKAGAYDFPSPEWDTVTP EAKNLINQMLTINPAKRITAEHALKHPWVCQRSTVAS
MMHRQETVECLKKFNARRKLGAILTTMLATRNFSAAKSLNKKADGVKPTNSTKNSAAATSPKGTLP
AALESSDSANTTIEDEDAKARKQEIIKTTEQLIEAVNNGDFEAYAKICDPGLTSFEPEALGNLVEGMDFH
RFYFENLLAKNSKPIHTTILNPHVHVIGEDAACIAYIRLTQYIDGQGRPRTSQSEETRVWHRRDGKWQNV
HFHCSGAPVAPLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 56.2 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

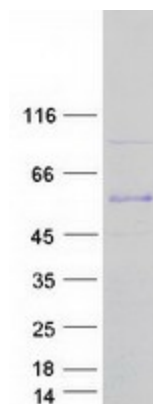
Storage: Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_742078
Locus ID:	816
UniProt ID:	Q13554
RefSeq Size:	4097
Cytogenetics:	7p13
RefSeq ORF:	1509
Synonyms:	CAM2; CAMK2; CAMKB; CaMKIIbeta; MRD54
Summary:	The product of this gene belongs to the serine/threonine protein kinase family and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a beta chain. It is possible that distinct isoforms of this chain have different cellular localizations and interact differently with calmodulin. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Calcium signaling pathway, ErbB signaling pathway, Glioma, GnRH signaling pathway, Long-term potentiation, Melanogenesis, Neurotrophin signaling pathway, Olfactory transduction, Oocyte meiosis, Wnt signaling pathway

Product images:



Coomassie blue staining of purified CAMK2B protein (Cat# TP305669). The protein was produced from HEK293T cells transfected with CAMK2B cDNA clone (Cat# [RC205669]) using MegaTran 2.0 (Cat# [TT210002]).