

Recombinant Human CAMK2B Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CAMK2B-2475H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CAMK2B MS Standard C13 and N15-labeled recombinant protein (NP_742078) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	56.4 kDa
AA Sequence	MATTVTCTRFTDEYQLYEDIGKGAFSVVRRCVKLCTGHEYAAKIINTKKLSARDHQKL EREARICRLKHSNIVRLHDSISEEGFHYLVFDLVTGGELFEDIVAREYYSEADASHCI QQILEAVLHCHQMGGVVRDLKPENLLASKCKGA AVKLADFG LAIEVQGDQQA WFG FAGTPGYLSPEVLRKEAYGKPVDIWACGVILYILLVGYPFWDEDQHKLYQQIKAGA YDFPSPEWDTVTPEAKNLINQMLTINPAKRITAHEALKHPWVCQRSTVASMHRQE TVECLKKFNARRKLKGAILTTMLATRNFSAAKSLNKKADGVKPQTNSTKNSAAATS

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PKGTLPPAALESSDSANTTIEDEDAKARKQEIIKTTEQLIEAVNNGDFEAYAKICDPGL
TSFEPEALGNLVEGMDFHRFYFENLLAKNSKPIHTTILNPHVHVIGEDAACIAYIRLTQ
YIDGQGRPRTSQSEETRVWHRRDGKWQNVHFHCSGAPVAPLQTRTRPLEQKLISE
EDLAANDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CAMK2B calcium/calmodulin-dependent protein kinase II beta [Homo sapiens (human)]

Official Symbol CAMK2B

Synonyms CAMK2B; calcium/calmodulin-dependent protein kinase II beta; calcium/calmodulin dependent protein kinase (CaM kinase) II beta, CAMKB; calcium/calmodulin-dependent protein kinase type II subunit beta; calcium/calmodulin dependent protein kinase type II beta chain; CaM kinase II beta subunit; CaM kinase II beta chain; CAM2; CAMK2; proline rich calmodulin dependent protein kinase; caMK-II subunit beta; CaM-kinase II beta chain; proline rich calmodulin-dependent protein kinase; CAMKB; MGC29528;

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Gene ID	816
mRNA Refseq	NM_172081
Protein Refseq	NP_742078
MIM	607707
UniProt ID	Q13554
SDS-PAGE	