

Recombinant Full Length Human CAMK2B Protein, GST-tagged

Cat. No. CAMK2B-2760HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CAMK2B full-length ORF (AAH19070.1, 1 a.a. - 503 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	503 amino acids
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. [provided by RefSeq, May 2014]
Molecular Mass	81.07 kDa
AA Sequence	MATTVTCTRFTDEYQLYEDIGKGAFSVVRRRCVKLCTGHEYAAKIINTKKLSARDHQKL EREARICRLLKHSNIVRLHDSISEEGFHLYVFDLVTGGELFEDIVAREYYSEADASHCI QQILEAVLHCHQMGGVVRDLKPENLLLASKCKGA AVKLADFGLAIEVQGDQQAWFG FAGTPGYLSPEVLRKEAYGKPVDIWACGVILYILLVGYPFWDEDQHKLYQQIKAGA

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YDFPSPEWDTVTPEAKNLINQMLTINPAKRITAHEALKHPWVCQRSTVASMMHRQE
TVECLKKFNARRKLGAILTTMLATRNFSAAKSLLNKKADGVKPKQTNSTKNSAAATS
PKGTLPPAALESSDSANTTIEDEDAKARKQEIIKTTEQLIEAVNNGDFEAYAKICDPGL
TSFEPEALGNLVEGMDFHRFYFENLLAKNSKPIHTTILNPHVHVIGEDAACIAYIRLTQ
YIDGQGRPRTSQSEETRVWHRRDGGKWQNVHVFHCSGAPVAPLQ

Applications
Kinase Assay
Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

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

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_001220
Protein Refseq	NP_001211
MIM	607707
UniProt ID	Q13554

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