

Recombinant Human CAMK2B, His-tagged, Active

Cat. No. CAMK2B-265H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CAMK2beta was expressed by baculovirus in Sf9 cells using an N-terminal His tag. MW = 58 kDa.
Species	Human
Source	Sf9 Cells
Description	CAMK2 β belongs to the serine/threonine protein kinase family and to the type II multifunctional Ca(2+)/calmodulin-dependent protein kinase subfamily. CAMK2 β showed wide tissue and cell distribution, and one of CAMK2 β variant predominated in adult brain. The ratio of CAMK2 α and CAMK2 β protein levels were inversely related during activity in hippocampal neurons. CAMK2 β is a prominent kinase in the central nervous system and may function in long-term potentiation and neurotransmitter release.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

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Gene Name	CAMK2B calcium/calmodulin-dependent protein kinase II beta [Homo sapiens]
Synonyms	CAMK2B; calcium/calmodulin-dependent protein kinase II beta; CAM2; CAMK2; CAMKB; MGC29528; OTTHUMP00000159355; OTTHUMP00000159356; OTTHUMP00000209343; CaM-kinase II beta chain; CaM kinase II beta subunit; proline rich calmodulin-dependent protein kinase; calcium/calmodulin-dependent protein kinase type II beta chain; EC 2.7.11.17; CaM kinase II subunit beta; CaMK-II subunit beta
Gene ID	816
mRNA Refseq	NM_001220
Protein Refseq	NP_001211
MIM	607707
UniProt ID	Q13554
Chromosome Location	22q12; 7p14.3-p14.1
Pathway	Calcium signaling pathway; ErbB signaling pathway; Glioma; GnRH signaling pathway; Long-term potentiation; Melanogenesis; Neurotrophin signaling pathway; Olfactory transduction; Wnt signaling pathway
Function	ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; nucleotide binding; transferase activity

PDB rendering based
on 2ux0.

