Recombinant Human CAMKK2, GST-tagged, Active

Cat. No. CAMKK2-270H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CAMKK2 was expressed by baculovirus in*Sf9*insect cells using an N-terminal GST tag. MW = 88 kDa.
Species	Human
Source	Sf9 Cells
Description	CAMKK2 (CAMKKβ) is a member of the CAMKK family. It is broadly distributed in tissues with highest levels in brain, thymus, spleen, and testis. CaMKK2 undergoes intramolecular autophosphorylation, is regulated by Ca2+/calmodulin and phosphorylates CaMKI and CaMKIV on Thr177 and Thr200, respectively. CaMKK2 activates both CaMKI and CaMKIV when coexpressed in Jurkat T cells. CaMKK2 also phosphorylates and regulates the activity of AMPK, which is an important regulator of cellular metabolism in response to metabolic stress.
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	CAMKK2 calcium/calmodulin-dependent protein kinase kinase 2, beta [Homo sapiens]
Synonyms	CAMKK2; calcium/calmodulin-dependent protein kinase kinase 2, beta; CAMKK; CAMKKB; KIAA0787; MGC15254; calcium/calmodulin-dependent protein kinase kinase 2 beta; CAMKK beta protein; calcium/calmodulin-dependent protein kinase beta; EC 2.7.11.17; CaM-KK beta; CaM-kinase kinase beta; CaMKK beta; Calcium/calmodulin-dependent protein kinase kinase beta
Gene ID	10645
mRNA Refseq	NM_006549
Protein Refseq	NP_006540
UniProt ID	Q96RR4
Chromosome Location	12q24.2
Pathway	Adipocytokine signaling pathway
Function	ATP binding; calcium ion binding; calmodulin binding; calmodulin-dependent protein kinase activity; nucleotide binding; protein tyrosine kinase activity; transferase activity

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