

Recombinant Mouse Camkk2 Protein, Myc/DDK-tagged

Cat. No. Camkk2-1947M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length calcium/calmodulin-dependent protein kinase kinase 2, beta (Camkk2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade involved in a number of cellular processes. Phosphorylates CAMK1, CAMK4 and CAMK1D. Efficiently phosphorylates 5'-AMP-activated protein kinase (AMPK) trimer, including that consisting of PRKAA1, PRKAB1 and PRKAG1. This phosphorylation is stimulated in response to Ca ²⁺ signals. May play a role in neurite growth. Isoform 2 may promote neurite elongation, while isoform 1 may promoter neurite branching. May be involved in hippocampal activation of CREB1.
Molecular Mass	59.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Camkk2 calcium/calmodulin-dependent protein kinase kinase 2, beta \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Camkk2](#)

Synonyms CAMKK2; calcium/calmodulin-dependent protein kinase kinase 2, beta; calcium/calmodulin-dependent protein kinase kinase 2; caMKK 2; caM-KK 2; caMKK beta; caM-KK beta; caM-kinase kinase 2; caM-kinase kinase beta; calcium/calmodulin-dependent protein kinase kinase beta; AW061083; mKIAA0787; 6330570N16Rik

Gene ID [207565](#)

mRNA Refseq [NM_145358](#)

Protein Refseq [NP_663333](#)

UniProt ID [Q8C078](#)

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