

Recombinant Mouse Camk1, GST-tagged, Active

Cat. No. Camk1-263M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length mouse CAMK1 was expressed in <i>E. coli</i> cells using an N-terminal GST tag. MW = 70 kDa.
Species	Mouse
Source	E.coli
Description	CAMK1 is a serine/threonine protein kinase that is a member of the multifunctional calcium/calmodulin-dependent protein kinase family. CAMK1 is ubiquitously expressed and phosphorylates a number of proteins including SYN1, SYN2, CREB and CFTR. In addition, Numb family of proteins may also be intracellular targets for CAMK1, and they may also be regulated by phosphorylation-dependent interaction with 14-3-3 protein. CAMK1 also plays an important role in the trafficking of HDAC7 between the cytoplasm and the nucleus. CAMK1 phosphorylates HDAC7 on multiple sites that lead to alteration in localization of HDAC7.
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	Camk1 calcium/calmodulin-dependent protein kinase I [Mus musculus]
Synonyms	Camk1; calcium/calmodulin-dependent protein kinase I; AI505105; CaMKIalpha; D6Ert263e; OTTMUSP00000025539; EC 2.7.11.17
Gene ID	52163
mRNA Refseq	NM_133926
Protein Refseq	NP_598687
UniProt ID	Q91YS8
Chromosome Location	6 E3; 6 48.7 cM
Function	ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; kinase activity; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; transferase activity

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