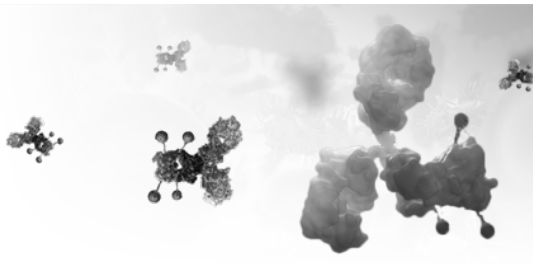

Mouse CAMK2B peptide (DAG-P0207)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	CaM-kinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. Member of the NMDAR signaling complex in excitatory synapses, it may regulate NMDAR-dependent potentiation of the AMPAR and synaptic plasticity.
Specificity	Widely expressed. Expressed in adult and fetal brain. Expression is slightly lower in fetal brain.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily.Contains 1 protein kinase domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	Camk2b calcium/calmodulin-dependent protein kinase II, beta [Mus musculus (house mouse)]
Official Symbol	CAMK2B
Synonyms	CAMK2B; calcium/calmodulin-dependent protein kinase II, beta; Camk2d; calcium/calmodulin-dependent protein kinase type II subunit beta; CaMK II; caMK-II subunit beta; caM kinase II subunit beta; calcium/calmodulin-dependent protein kinase II, delta;
Entrez Gene ID	12323

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mRNA Refseq	NM_001174053.1
Protein Refseq	NP_001167524.1
UniProt ID	Q68EG2
Chromosome Location	11 A1; 11 3.89 cM
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Adrenergic signaling in cardiomyocytes, organism-specific biosystem; Adrenergic signaling in cardiomyocytes, conserved biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; CREB phosphorylation through the activation of CaMKII, organism-specific biosystem; CREB phosphorylation through the activation of Ras, organism-specific biosystem; Calc
Function	ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; kinase activity; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; protein serine/threonine kinase activity; transferase a

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