CAMK2 beta Recombinant Protein | CAMK2beta recombinant protein

CAMK2 beta, Active

CATALOG #	HOST	APPLICATIONS
AAA73308	**Sf9 insect cells**	**Western Blot**

PRODUCT SYNONYMS

CAMK2 beta; Active; CAMKB; CAM2; CAMK2; MGC29528; CAMK2beta recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.2mM DTT, 25% glycerol.
Applicable Applications for CAMK2beta recombinant protein	WB (Western Blot), Kinase Assay
Tag	HIS
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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.

IMAGES

SDS-PAGE
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.

Activity
Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for CAMK2beta recombinant protein	Recombinant full-length human CAMK2beta was expressed by baculovirus in Sf9 cells using an N-terminal His tag. The gene accession number is NM_172081. CAMK2beta belongs to the serine/threonine protein kinase family and to the type II multifunctional Ca(2+)/calmodulin-dependent protein kinase subfamily. CAMK2beta showed wide tissue and cell distribution, and one of CAMK2beta variant predominated in adult brain (1). The ratio of CAMK2alpha and CAMK2beta protein levels were inversely related during activity in hippocampal neurons (2). CAMK2beta is a prominent kinase in the central nervous system and may function in long-term potentiation and neurotransmitter release.
Product Categories/Family for CAMK2beta recombinant protein	Protein Kinases; Cardiovascular Disease; ERK/MAPK Pathway; Neurobiology; PKA/PKC Pathway; Ser/Thr Kinases
References	1. Tombes, R. M. et al: Identification of novel human tumor cell-specific CaMK-II variants. Biochim. Biophys. Acta 1355: 281-292, 1997. 2. Thiagarajan, T. C. Et al: Alpha-and beta-CaMKII: inverse regulation by neuronal activity and opposing effects on synaptic strength. Neuron 36: 1103-1114, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_172081
Molecular Weight	~58kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/camk2-beta-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73308