

Datasheet for ABIN7317100
CAMK2A Protein (GST tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	CAMK2A
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CAMK2A protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human CAMK2A/CAMKA Protein (GST Tag)(Active)
Sequence:	Met 1-His 478
Characteristics:	A DNA sequence encoding the human CAMK2A isoform 2 (NP_741960.1) (Met 1-His 478) was fused with the GST tag at the N-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	The specific activity was determined to be 160 nmol/min/mg using Autocamtide-2 synthetic peptide (KKALRRQETVDAL-amide) as substrate.

Target Details

Target:	CAMK2A
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Target Details

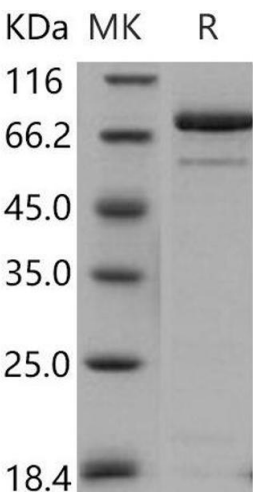
Alternative Name:	CAMK2A/CAMKA (CAMK2A Products)
Background:	<p>Background: Ca²⁺/calmodulin-dependent protein kinase2A (CAMK2A) belongs to the serine/threonine protein kinase family and, together with other 28 different isoforms, belongs to the Ca²⁺/ calmodulin-dependent protein kinase subfamily. CaM kinase II is thought to be an important mediator of learning and memory and is also necessary for Ca²⁺ homeostasis and reuptake in cardiomyocytes chloride transport in epithelia, positive T-cell selection, and CD8 T-cell activation. CAMKIIA is one of the major forms of CAMKII. It has been found to play a critical role in sustaining activation of CAMKII at the postsynaptic density. Studies have found that knockout mice without CAMKIIA demonstrate a low frequency of LTP. Additionally, these mice do not form persistent, stable place cells in the hippocampus.</p> <p>Synonym: CAMKA</p>
Molecular Weight:	80.3 kDa
NCBI Accession:	NP_741960
Pathways:	WNT Signaling , Interferon-gamma Pathway , Myometrial Relaxation and Contraction

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Frozen, Liquid
Buffer:	Supplied as sterile 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, 0.5 mM Reduced Glutathione, pH 8.0
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



Western Blotting

Image 1.