

Datasheet for ABIN7564825 CAMK1 Protein (AA 1-374) (His tag)



Overview

Quantity:	1 mg
Target:	CAMK1
Protein Characteristics:	AA 1-374
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CAMK1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Camk1 Protein expressed in mammalien cells.
Sequence:	MPGAVEGPRW KQAEDIRDIY DFRDVLGTGA FSEVILAEDK RTQKLVAIKC IAKKALEGKE
	GSMENEIAVL HKIKHPNIVA LDDIYESGGH LYLIMQLVSG GELFDRIVEK GFYTERDASR
	LIFQVLDAVK YLHDLGIVHR DLKPENLLYY SLDEDSKIMI SDFGLSKMED PGSVLSTACG
	TPGYVAPEVL AQKPYSKAVD CWSIGVIAYI LLCGYPPFYD ENDAKLFEQI LKAEYEFDSP
	YWDDISDSAK DFIRHLMEKD PEKRFTCEQA LQHPWIAGDT ALDKNIHQSV SEQIKKNFAK
	SKWKQAFNAT AVVRHMRKLQ LGTSQEGQGQ TGSHGELLTP TAGGPAAGCC CRDCCVEPGS
	ELPPAPPPSS RAMD Sequence without tag. The proposed Purification-Tag is based on
	experiences with the expression system, a different complexity of the protein could make
	another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits:

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	 Made to order protein - from design to production - by highly experienced protein experts. Protein expressed in mammalien cells and purified in one-step affinity chromatography The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.
	If you are not interested in a full length protein, please contact us for individual protein fragments.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

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	and 'Ser-498' in the regulation of muscle cell differentiation. Regulates NUMB-mediated
	endocytosis by phosphorylation of NUMB on 'Ser-276' and 'Ser-295'. Involved in the regulation
	of basal and estrogen-stimulated migration of medulloblastoma cells through
	ARHGEF7/BETAPIX phosphorylation. Is required for proper activation of cyclin-D1/CDK4
	complex during G1 progression in diploid fibroblasts. Plays a role in K(+) and ANG2-mediated
	regulation of the aldosterone synthase (CYP11B2) to produce aldosterone in the adrenal cortex.
	Phosphorylates EIF4G3/eIF4GII. In vitro phosphorylates CREB1, ATF1, CFTR, MYL9 and
	SYN1/synapsin I (By similarity). {ECO:0000250, ECO:0000269 PubMed:15150258}.
Molecular Weight:	41.6 kDa
UniProt:	Q91YS8
Pathways:	Myometrial Relaxation and Contraction, Regulation of Muscle Cell Differentiation, Smooth
	Muscle Cell Migration
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a
	guarantee though.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months