

Product datasheet

Recombinant human CaMKII beta protein ab132961

2 Images

Description

Product name	Recombinant human CaMKII beta protein
Expression system	Wheat germ
Accession	Q13554-3
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>MATTVTCTRFTDEYQLYEDIGKGAFSVVRRVCVKLCTGHEY AAKIINTKKL SARDHQKLEREARICRLLKHSNIVRLHDSISEEGFHLYLVD LVTGGELFE DIVAREYYSEADASHCIQQILEAVLHCHQMGGVHRDLKPE NLLLASKCKG AAVKLADFGLAIEVQGDQQAWFGFAGTPGYLSPEVLRKE AYGKPVDIWAC GVILYILLVGYPFWDEDQHKLYQQIKAGAYDFPSPEWDTV TPEAKNLIN QMLTINPAKRITAHEALKHPWVCQRSTVASMMHRQETVE CLKKFNARRKL KGAILTTMLATRNFSAAKSLLNKKADGVKPKQTNSTKNSAA ATSPKGTLP AALESSDSANTTIEDEDAKARKQEIKTTEQLIEAVNNGDFE AYAKICDP GLTSFEPEALGNLVEGMDFHRFYFENLLAKNSKPIHTTILN PHVHVIGED AACIAYIRLTQYIDGQGRPRTSQSEETRVWHRRDGKWQNV HFHCSGAPVA PLQ</p>
Predicted molecular weight	81 kDa including tags
Amino acids	1 to 503
Tags	GST tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab132961** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Western blot ELISA Functional Studies
Form	Liquid

Additional notes

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

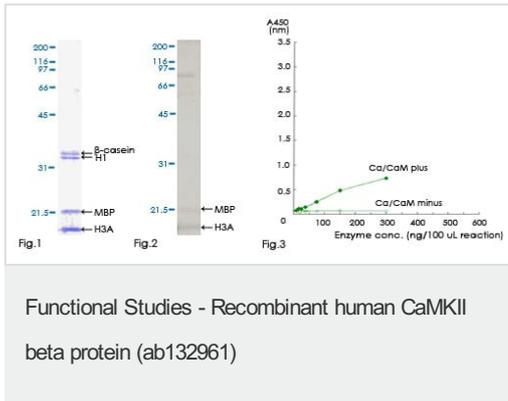
Function	CaM-kinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. Member of the NMDAR signaling complex in excitatory synapses, it may regulate NMDAR-dependent potentiation of the AMPAR and synaptic plasticity.
Tissue specificity	Widely expressed. Expressed in adult and fetal brain. Expression is slightly lower in fetal brain.
Sequence similarities	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. Contains 1 protein kinase domain.

Images



12.5% SDS-PAGE analysis of ab132961 stained with Coomassie Blue.

SDS-PAGE - Recombinant human CaMKII beta protein (ab132961)



Kinase Assay using ab132961.

Fig.1: SDS-PAGE gel

Fig.2: Autoradiography of SDS-PAGE gel.

Kinase substrates:

H3 histone, family 3A - calf thymus - Molecular weight: approx. 16.5-17 kDa on SDS-PAGE

Myelin basic protein - bovine brain - Molecular weight: approx. 21-22 kDa on SDS-PAGE

Histone H1.0 - calf thymus - Molecular weight: approx. 32-33 kDa on SDS-PAGE

Beta-casein protein- bovine milk - Molecular weight: approx. 33-34 kDa on SDS-PAGE

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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