

Product datasheet

Recombinant Human CaM-KIIN protein ab183229

1 Image

Description

Product name	Recombinant Human CaM-KIIN protein
Purity	> 95 % SDS-PAGE. ab183229 was purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<u>Q96S95</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMGSMSEILPYSEDKMGRF GADPEGSDLFSF CRLQDTNSFFAGNQAKRPPKLGQIGRAKRVVIEDDRIDDV LKGMGEKPPS GV
Predicted molecular weight	11 kDa including tags
Amino acids	1 to 79
Tags	His tag N-Terminus
Additional sequence information	NP_150284

Specifications

Our **Abpromise guarantee** covers the use of **ab183229** 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 Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid
Additional notes	Previously labelled as CAMKCN2.

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.32% Tris HCl, 0.88% Sodium chloride, 10% Glycerol (glycerin, glycerine), 0.02% DTT

General Info

Function

Potent and specific cellular inhibitor of CaM-kinase II (CAMK2). Traps Ca(2+)/calmodulin on CAMK2. May play an important role in the regulation of cell growth when overexpressed in colon adenocarcinoma LoVo cells. Traps Ca(2+)/calmodulin on CAMK2.

Tissue specificity

Expressed in cell lines including hemopoietic cell lines and some tumor cell lines. Highly expressed in stimulated dendritic cell (DC) and weakly expressed in unstimulated mature and immature DC. Highly expressed in kidney, liver, in cell lines HeLaS3, lymphoblastic leukemia MOLT-4, and Burkitt's lymphoma Raji. Moderately expressed in heart, skeletal muscle, placenta, and chronic myelogenous leukemia K-562 cells. Weakly expressed in small intestine, colorectal adenocarcinoma SW480, and lung carcinoma A-549 cells.

Sequence similarities

Belongs to the CAMK2N family.

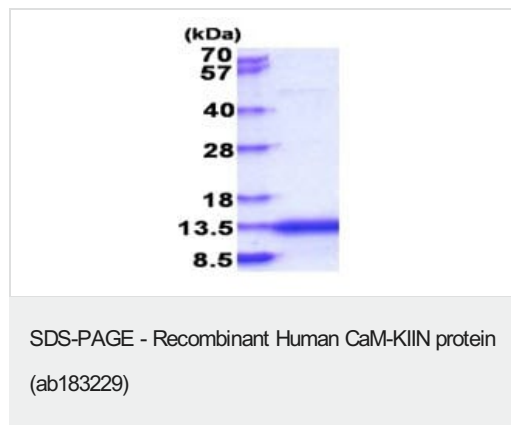
Domain

The inhibitory domain blocks CAMK2 binding to GRIN2B.

Cellular localization

Nucleus. Cytoplasm > cytosol. Excluded from nucleus when coexpressed with activated CAMK2.

Images



15% SDS-PAGE analysis of ab183229 (3µg).

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