



CaMKIV mouse mAb

Catalog No	BYab-14219
Isotype	IgG
Reactivity	Human
Applications	WB
Gene Name	camk4
Protein Name	
Immunogen	Purified recombinant human CaMKIV protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of CaMKIV and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb 1:1000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Brain Ca(2) calmodulin dependent protein kinase type 4;Brain Ca(2) calmodulin dependent protein kinase type IV;Brain Ca -calmodulin dependent protein kinase type IV;Calcium / calmodulin dependent protein kinase type 4 catalytic chain;Calcium / calmodulin dependent protein kinase type IV catalytic chain; Calcium/calmodulin dependent protein kinase IV;Calcium/calmodulin dependent protein kinase type IV;Calcium/calmodulin-dependent protein kinase type IV;CAM kinase 4;CAM kinase GR;CAM kinase IV;CAM kinase-GR;CaMK 4;CaMK GR;CaMK IV;CaMK4;CaMKGR;IV;KCC4_HUMAN; MGC36771.
Observed Band	55kD
Cell Pathway	Cytoplasm. Nucleus. Localized in hippocampal neuron nuclei. In spermatids, associated with chromatin and nuclear matrix (By similarity).
Tissue Specificity	Expressed in brain, thymus, CD4 T-cells, testis and epithelial ovarian cancer tissue.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme regulation:Activated by Ca(2+)/calmodulin. Binding of calmodulin may release

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intrasteric autoinhibition. Must be phosphorylated to be maximally active. Phosphorylated by CAMKK1 or CAMKK2. Autophosphorylation of the N-terminus is required for full activation. In part, activity is independent on Ca^{2+} /calmodulin and autophosphorylation of Ser-336 allows to switch to a Ca^{2+} /calmodulin-independent state (By similarity). Probably inactivated by serine/threonine protein phosphatase 2A.,function:Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade. May be involved in transcriptional regulation. May be involved in regulation of microtubule dynamics. In vitro, phosphorylates CREB1, CREBBP, PRM2, MEF2A, MEF2D and STMN1/OP18. May be involved in spermatogenesis. May play a role i

Background

The product of this gene belongs to the serine/threonine protein kinase family, and to the Ca^{2+} /calmodulin-dependent protein kinase subfamily. This enzyme is a multifunctional serine/threonine protein kinase with limited tissue distribution, that has been implicated in transcriptional regulation in lymphocytes, neurons and male germ cells. [provided by RefSeq, Jul 2008],

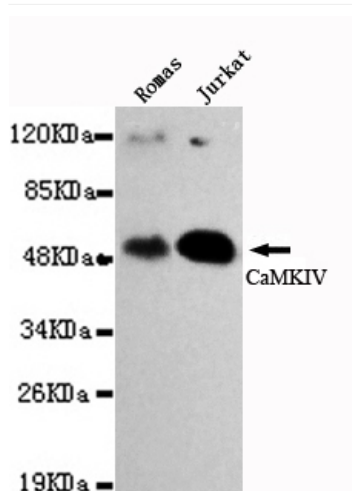
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot detection of CaMKIV in Romas and Jurkat cell lysates using CaMKIV mouse mAb (1:1000 diluted).Predicted band size:52KDa.Observed band size:55KDa.

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网址: www.njbybio.com

官方热线: 025-5229-8998

监督电话: 15950492658