





CaMKIV mouse mAb

Catalog No	YP-Ab-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;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 releave 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



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male germ cells. [provided by RefSeq, Jul 2008],

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serin prote be in micro MEF	+)/calmodulin-independent state (By similarity). Probably inactivated by e/threonine protein phosphatase 2A.,function:Calcium/calmodulin-dependerin kinase belonging to a proposed calcium-triggered signaling cascade. May olved in transcriptional regulation. May be involved in regulation of otubule dynamics. In vitro, phosphorylates CREB1, CREBBP, PRM2, 2A, MEF2D and STMN1/OP18. May be involved in spermatogenesis. May a role i	ay
a mu	product of this gene belongs to the serine/threonine protein kinase family, o the Ca(2+)/calmodulin-dependent protein kinase subfamily. This enzyme ltifunctional serine/threonine protein kinase with limited tissue distribution, has been implicated in transcriptional regulation in lymphocytes, neurons a	

matters needing attention

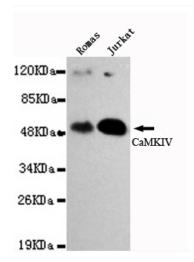
Background

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.