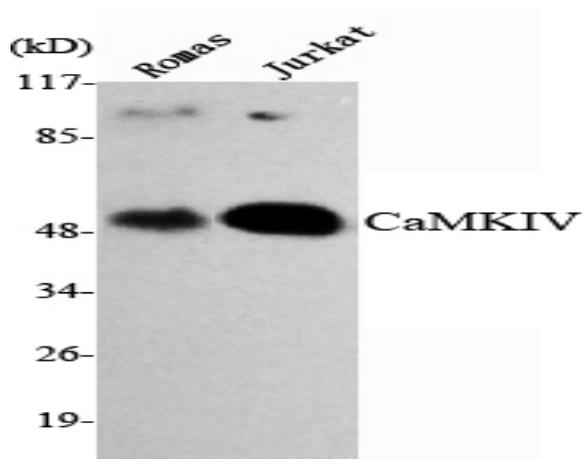


## CaMKIV Monoclonal Antibody

<b>Catalog No :</b>	YM1018
<b>Reactivity :</b>	Human;Mouse;Rat;Chicken;Dog;Pig
<b>Applications :</b>	WB
<b>Target :</b>	CaMKIV
<b>Fields :</b>	>>Calcium signaling pathway;>>cAMP signaling pathway;>>Longevity regulating pathway;>>Apelin signaling pathway;>>Osteoclast differentiation;>>Long-term potentiation;>>Neurotrophin signaling pathway;>>Cholinergic synapse;>>Oxytocin signaling pathway;>>Aldosterone synthesis and secretion;>>Amphetamine addiction;>>Alcoholism;>>Glioma
<b>Gene Name :</b>	CAMK4
<b>Protein Name :</b>	Calcium/calmodulin-dependent protein kinase type IV
<b>Human Gene Id :</b>	814
<b>Human Swiss Prot No :</b>	Q16566
<b>Mouse Swiss Prot No :</b>	P08414
<b>Rat Gene Id :</b>	25050
<b>Rat Swiss Prot No :</b>	P13234
<b>Immunogen :</b>	Purified recombinant human CaMKIV protein fragments expressed in E.coli.
<b>Specificity :</b>	CaMKIV Monoclonal Antibody detects endogenous levels of CaMKIV protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:1000 - 1:2000. Not yet tested in other applications.

<b>Purification :</b>	Affinity purification
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	52kD
<b>Cell Pathway :</b>	Calcium;Long-term potentiation;Neurotrophin;
<b>Background :</b>	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],
<b>Function :</b>	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme regulation:Activated by Ca(2+)/calmodulin. Binding of calmodulin may release 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
<b>Subcellular Location :</b>	Cytoplasm. Nucleus. Localized in hippocampal neuron nuclei. In spermatids, associated with chromatin and nuclear matrix (By similarity). .
<b>Expression :</b>	Expressed in brain, thymus, CD4 T-cells, testis and epithelial ovarian cancer tissue.
<b>Tag :</b>	hot
<b>Sort :</b>	3098
<b>No4 :</b>	1
<b>Host :</b>	Mouse
<b>Modifications :</b>	Unmodified

## Products Images



Western Blot analysis using CaMKIV Monoclonal Antibody against Romas, Jurkat cell lysate.