



CAMKK1/2 mouse mAb

Catalog No	YP-mAb-12539
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CAMKK1 CAMKKA
Immunogen	Synthesized peptide derived from human CAMKK1/2
Specificity	This antibody detects endogenous levels of CAMKK1/2 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, and 0.23% sodium azide.
Source	Monoclonal, mouse,IgG
Purification	The antibody was affinity-purified from mouse serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CaM KK 1;CaM kinase kinase alpha;CaM kinase kinase 1;CaM kinase IV kinase; Calcium/calmodulin-dependent protein kinase kinase alpha;CAMKK1/2; CAMKK1 CAMKKA;Calcium/calmodulin-dependent protein kinase kinase 1 (CaM-KK 1) (CaM-kinase kinase 1) (CaMKK 1) (EC 2.7.11.17) (CaM-kinase IV kinase) (Calcium/calmodulin-dependent protein kinase kinase alpha) (CaM-KK alpha) (CaM-kinase kinase alpha) (CaMKK alpha)
Calculated Molecular Weight	520 aa, 57 kDa
Cell Pathway	Cytoplasm . Nucleus .
Tissue Specificity	Amygdala,Brain,
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,domain:The autoinhibitory domain overlaps with the calmodulin binding region and may be involved in intrasteric autoinhibition.,domain:The RP domain (arginine/proline-rich) is involved in the recognition of CAMKI and CAMK4 as substrates.,enzyme regulation:Activated by Ca(2+)/calmodulin. Binding of calmodulin may release intrasteric autoinhibition. Partially inhibited upon phosphorylation by PRCAKA/ PKA (By similarity). May be regulated through phosphorylation by CAMK1 and CAMK4.,function:Calcium/calmodulin-dependent protein kinase that belongs to a proposed calcium-triggered signaling cascade involved in a number of cellular processes. Phosphorylates CAMK1, CAMK1D, CAMK1G and CAMK4. Involved



in regulating cell apoptosis. Promotes cell survival by phosphorylating AKT1/PKB that inhibits pro-apoptotic BAD/Bcl2-antagonist of cell de

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 protein plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade. Three transcript variants encoding two distinct isoforms have been identified for this gene. [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

