



CaMKIIα/β/δ (phospho Thr305) Monoclonal Antibody

Catalog No	BYmab-14352
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CAMK2A
Protein Name	Calcium/calmodulin-dependent protein kinase type II subunit alpha
Immunogen	The antiserum was produced against synthesized peptide derived from human CaMK2 alpha/beta/delta around the phosphorylation site of Thr305. AA range:271-320
Specificity	Phospho-CaMKII α / β / δ (T305) Monoclonal Antibody detects endogenous levels of CaMKII α / β / δ protein only when phosphorylated at T305.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CAMK2A; CAMKA; KIAA0968; Calcium/calmodulin-dependent protein kinase type II subunit alpha; CaM kinase II subunit alpha; CaMK-II subunit alpha; CAMK2B; CAMK2; CAMKB; Calcium/calmodulin-dependent protein kinase type II subunit beta; Ca
Observed Band	54kD
Cell Pathway	Cell junction, synapse . Cell junction, synapse, postsynaptic density . Cell projection, dendritic spine . Cell projection, dendrite . Postsynaptic lipid rafts
Tissue Specificity	Brain,
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme regulation:Autophosphorylation of Thr-286 allows the kinase to switch from a calmodulin-dependent to a calmodulin-independent state.,function:CaM-kinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. Member of the NMDAR

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signaling complex in excitatory synapses it may regulate NMDAR-dependent
potentiation of the AMPAR and synaptic plasticity, similarity Belongs to the protein
kinase superfamily., similarity: Belongs to the protein kinase superfamily. CAMK
Ser/Thr protein kińase family. CaMK subfamily.,similarity:Contains 1 protein
kinase domain.,subcellular location:Postsynaptic lipid rafts.,subunit:CAMK2 is
composed of four different chains: alpha, beta, gamma, and delta. The different
isoforms assemble into homo- or heteromultimeric

Background

The product of this gene belongs to the serine/threonine protein kinases family, and to the Ca(2+)/calmodulin-dependent protein kinases subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. This calcium calmodulin-dependent protein kinase is composed of four different chains: alpha, beta, gamma, and delta. The alpha chain encoded by this gene is required for hippocampal long-term potentiation (LTP) and spatial learning. In addition to its calcium-calmodulin (CaM)-dependent activity, this protein can undergo autophosphorylation, resulting in CaM-independent activity. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Nov 2008],

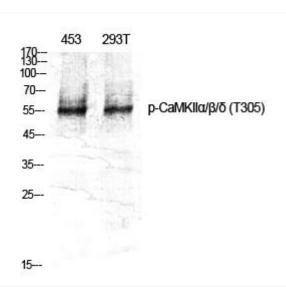
matters needing attention

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 analysis of various cells using CaMKII α / β / δ (phospho Thr305) Monoclonal Antibody

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