



# CaMKIIα/δ (phospho Thr286) Monoclonal Antibody

CaMKII a / δ protein only when phosphorylated at T286.  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; CAMK2D; CAMKD; Calcium/calmodulin-dependent protein kinase type II subunit delta; CaM kinase II  Observed Band Cell Pathway Cell junction, synapse . Cell junction, synapse, postsynaptic density . Cell projection, dendrite . Postsynaptic lipid rafts .  Tissue Specificity Brain,  catalytic activity:ATP + a protein = ADP + a phosphoprotein, enzyme regulation:Autophosphorylation of Thr-286 allows the kinase to switch from a calmodulin-dependent state, function:CaM-kinase II		
Reactivity         Human;Mouse;Rat;Pig           Applications         WB           Gene Name         CAMK2A/CAMK2D           Protein Name         Calcium/calmodulin-dependent protein kinase type II subunit alpha/delta           Immunogen         The antiserum was produced against synthesized peptide derived from human CaMK2 around the phosphorylation site of Thr286. AA range:256-305           Specificity         Phospho-CaMKII α / δ [7286] Monoclonal Antibody detects endogenous levels of CaMKII α / δ protein only when phosphorylated at T286.           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; CaMK:I subunit alpha; CaMK:I subunit alpha; CaMK2D; CAMKD; Calcium/calmodulin-dependent protein kinase type II subunit delta; CaM kinase II           Observed Band         54kD           Cell Pathway         Cell junction, synapse . Cell junction, synapse, postsynaptic density . Cell projection, dendritic spine . Cell projection, dendrite . Postsynaptic lipid r	Catalog No	BYmab-14301
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kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CAMK
Ser/Thr protein kinase 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],

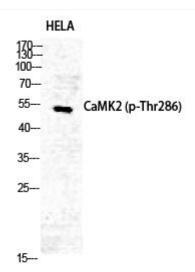
## matters needing attention

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  $\alpha$  /  $\delta$  (phospho Thr286) Monoclonal Antibody

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