



# CaMKIIα/β/δ Polyclonal Antibody

Catalog No	BYab-14684
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	IHC;IF;WB;ELISA
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. AA range:271-320
Specificity	CaMKII $\alpha/\beta/\delta$ Polyclonal Antibody detects endogenous levels of CaMKII $\alpha/\beta/\delta$ protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 IHC: 1/100 - 1/300. ELISA: 1/5000 IF 1:50-200
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	
Cell Pathway	
Och i athway	Cell junction, synapse . Cell junction, synapse, postsynaptic density . Cell projection, dendritic spine . Cell projection, dendrite . Postsynaptic lipid rafts
Tissue Specificity	Cell junction, synapse . Cell junction, synapse, postsynaptic density . Cell projection, dendritic spine . Cell projection, dendrite . Postsynaptic lipid rafts  Brain,
	projection, dendritic spine. Cell projection, dendrite. Postsynaptic lipid rafts.

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kinase superfamily., similarity:Belongs to the protein kinase superfamily. CAMK
Ser/Thr protein kińase family. CaMK subfamilysimilarity: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],

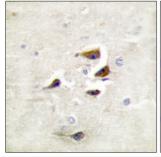
## matters needing attention

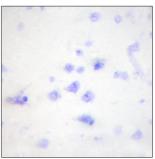
Avoid repeated freezing and thawing!

### **Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### **Products Images**





Immunohistochemistry analysis of paraffin-embedded human brain tissue, using CaMK2 alpha/beta/delta Antibody. The picture on the right is blocked with the synthesized peptide.

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