

Camk2a/Camk2b (phospho T286) polyclonal antibody

Catalog # PAB9668

Size 100 uL

Applications



Western Blot (Tissue lysate)

Western blot of rat brain lysate showing specific immunolabeling of the ~50 kDa- and the ~60 kDa Camk2a/Camk2b phosphorylated at Thr286 (Control, lane 1). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: lambda-Ptase, lane 2). The blot is identical to the control except that it was incubated in lambda-Ptase (1200 units for 30 min) before being exposed to the Phospho-Camk2a/Camk2b T286. The immunolabeling is completely eliminated by treatment with lambda-Ptase.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of Camk2a/Camk2b.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding T286 of rat Camk2a/Camk2b.
Host	Rabbit
Theoretical MW (kDa)	50, 60
Reactivity	Clawed frog, Human, Mouse, Rat
Form	Liquid
Purification	Affinity purification
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM HEPES, 150 mM NaCl, pH 7.5 (50% glycerol, 1 mg/mL BSA)

Storage Instruction

Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

Western blot of rat brain lysate showing specific immunolabeling of the ~50 KDa- and the ~60 KDa Camk2a/Camk2b phosphorylated at Thr286 (Control, lane 1). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: lambda-Ptase, lane 2). The blot is identical to the control except that it was incubated in lambda-Ptase (1200 units for 30 min) before being exposed to the Phospho-Camk2a/Camk2b T286. The immunolabeling is completely eliminated by treatment with lambda-Ptase.

Gene Info — Camk2b

Entrez GeneID	24245
Protein Accession#	P11275
Gene Name	Camk2b
Gene Alias	Ck2b
Gene Description	calcium/calmodulin-dependent protein kinase (CaM kinase) II beta
Gene Ontology	Hyperlink
Gene Summary	beta subunit Ca2+/calmodulin-dependent protein kinase II beta calcium/calmodulin-dependent protein kinase II beta subunit calcium/calmodulin-dependent pr
Other Designations	Ca++/calmodulin-dependent protein kinase II beta subunit Ca++/calmodulin-dependent protein kinase II, beta subunit Ca2+/calmodulin-dependent protein kinase II beta calcium/calmodulin-dependent protein kinase II beta subunit calcium/calmodulin-dependent pr

Gene Info — Camk2a

Entrez GeneID	25400
Protein Accession#	P11275
Gene Name	Camk2a
Gene Alias	PK2CDD, PKCCD
Gene Description	calcium/calmodulin-dependent protein kinase II alpha

Gene Ontology

[Hyperlink](#)

Other Designations

Ca²⁺/calmodulin-dependent protein kinase II alpha|alpha CaM kinase II|calcium/calmodulin-dependent protein kinase (CaM kinase) II alpha|calcium/calmodulin-dependent protein kinase II alpha subunit

Publication Reference

- [Autophosphorylated calcium/calmodulin-dependent protein kinase II alpha \(CaMKII alpha\) reversibly targets to and phosphorylates N-methyl-D-aspartate receptor subunit 2B \(NR2B\) in cerebral ischemia and reperfusion in hippocampus of rats.](#)

Meng F, Guo J, Zhang Q, Song B, Zhang G.

Brain Research 2003 Mar; 967(1-2):161.

Application: WB-Ti, Rat, Hippocampal

- [Translocation of CaM kinase II to synaptic sites in vivo.](#)

Gleason MR, Higashijima S, Dallman J, Liu K, Mandel G, Fetcho JR.

Nature Neuroscience 2003 Mar; 6(3):217.

- [Inhibitory autophosphorylation of CaMKII controls PSD association, plasticity, and learning.](#)

Elgersma Y, Fedorov NB, Ikonen S, Choi ES, Elgersma M, Carvalho OM, Giese KP, Silva AJ.

Neuron 2002 Oct; 36(3):493.

Application: WB-Ti, Mouse, Hippocampal