

Product Name: CaMKII (Phospho-Thr 286) Mouse Monoclonal Antibody**Catalog #: AMM86145**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,IP
Reactivity	Rat
Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in TBS with 0.05% sodium azide,1%protective protein and 50% glycerol.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:50-1:500,IP 1:20-1:50
Molecular Weight	50kDa

Antigen Information

Gene Name	CaMKII (Phospho-Thr 286)
Alternative Names	Calcium/calmodulin dependent protein kinase II alpha antibody</br> Calcium/calmodulin dependent protein kinase II beta antibody</br> Calcium/calmodulin dependent protein kinase II delta antibody</br> Calcium/calmodulin dependent protein kinase II gamma antibody</br> Calcium/calmodulin-dependent protein kinase type II subunit alpha antibody</br> CaM kinase II alpha antibody</br> CaM kinase II antibody</br> CaM kinase II beta antibody</br> CaM kinase II delta antibody</br> CaM kinase II gamma antibody</br> CaM kinase II subunit alpha antibody</br> CaMK-II subunit alpha antibody</br> CAMK2 antibody</br> Camk2a antibody</br> CAMK2B antibody</br> CAMK2D antibody</br> CAMK2G antibody</br> CAMKA antibody</br> KCC2A_HUMAN

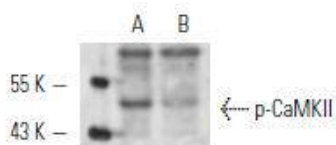
	antibody</br>
Gene ID	815;
SwissProt ID	Q9UQM7
Immunogen	peptide

Background

The Ca²⁺/calmodulin-dependent protein kinases (CaM kinases) comprise a structurally related subfamily of serine/threonine kinases which include CaMKI, CaMKII and CaMKIV. CaMKII is a ubiquitously expressed serine/ threonine protein kinase that is activated by Ca²⁺ and calmodulin (CaM) and has been implicated in regulation of the cell cycle and transcription. There are four CaMKII isozymes, designated alpha, beta, gamma and delta, which may or may not be coexpressed in the same tissue types. CaMKIV is stimulated by Ca²⁺ and CaM but also requires phosphorylation by a CaMK for full activation. Stimulation of the T cell receptor CD3 signaling complex with an anti-CD3 monoclonal antibody leads to a 10-40 fold increase in CaMKIV activity. An additional kinase, CaMKK, functions to activate CaMKI through the specific phosphorylation of the regulatory threonine residue at position 177.

Research Area

Image Data



Western blot analysis of p-CaMKII phosphorylation in untreated (A) and lambda phosphatase treated (B) rat brain tissue extract.