CaMKII (Phospho-Thr 286) Antibody

Catalog No: #13322

Package Size: #13322-1 50ul #13322-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	CaMKII (Phospho-Thr 286) Antibody
Host Species	Mouse
Clone No.	2G1
Purification	ProA affinity purified
Applications	WB, IP, IF
Species Reactivity	Rt
Immunogen Description	peptide
Other Names	Calcium/calmodulin dependent protein kinase II alpha antibody Calcium/calmodulin dependent protein kinase II beta antibody Calcium/calmodulin dependent protein kinase II delta antibody Calcium/calmodulin dependent protein kinase II gamma antibody Calcium/calmodulin-dependent protein kinase type II subunit alpha antibody CaM kinase II alpha antibody CaM kinase II antibody CaM kinase II beta antibody CaM kinase II delta antibody CaM kinase II gamma antibody CaM kinase II subunit alpha antibody CaMK-II subunit alpha antibody CAMK2 antibody Camk2a antibody CAMK2B antibody CAMK2D antibody CAMK2G antibody CAMKA antibody KCC2A_HUMAN antibody
Accession No.	Swiss-Prot#:Q9UQM7
Uniprot	Q9UQM7
GeneID	815;
Calculated MW	50kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at 4°C

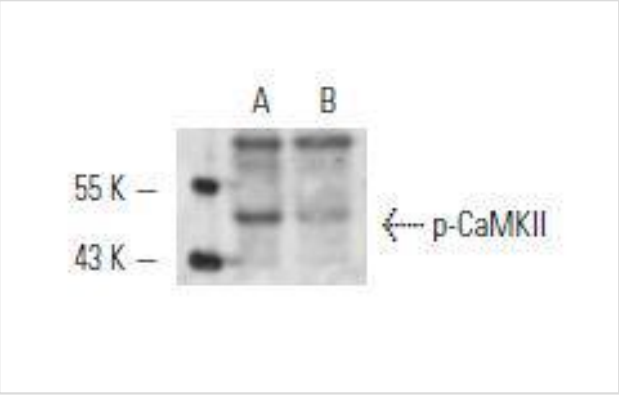
Application Details

WB: 1:100-1:1,000

IHC: 1:50-1:500

IP: 1-2 μg per 100-500 μg of total protein (1ml of cell lysate)

Images



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

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 α, β,γandδ, 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.

Note: This product is for in vitro research use only