

Anti-Phospho-CaMK2 (Thr286) Antibody (9U416)

Product Details

Reactivity:	Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 50 kDa.
Clone:	9U416
Purification:	ProA affinity purified

Applications

Verified Activity: 1. Western blot analysis of p-CaMKII phosphorylation in untreated (A) and lambda phosphatase treated (B) rat brain tissue extract.



Application: IF,IP,WB

Recommended WB: 1:100-1000; IHC: 1:50-500; IP: 1-2 µg per 100-500 µg of total protein (1ml of cell lysate)

Properties

Stability & Storage: Store at 2°C-8°C for 12 months, do not freeze.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Peptide

Uniprot ID: Q9UQM7

Synonyms: EC 2.7.11.17;CAMKB;alpha CaMKII;CaMK II beta subunit;mKIAA0968;Calcium/calmodulin-dependent protein kinase type II subunit alpha;MGC155201;CAMK2D;Calcium calmodulin dependent protein kinase II alpha-B subunit;PK2CDD;R74975;MGC139375;CaM kinase II alpha subunit;Calcium/calmodulin-dependent protein kinase type IIA;CaMKII;p-CaMKII (T286);CAMK2B;MGC123320;PKCCD;CaMK II alpha subunit;CAM2;CaM kinase II alpha chain;CAMKA;CaM kinase II beta subunit;CaM kinase II subunit alpha;CaM kinase II delta subunit;CaM kinase II beta chain;CAMK2A;Calcium/calmodulin-dependent protein kinase(CaM kinase) II alpha;CaMKII (p-Thr286);Calcium calmodulin dependent protein kinase CaM kinase II alpha;KCC2A;Calcium/Calmodulin Dependent Protein Kinase II G;zgc:112538;CaMKII alpha;CaMK-II subunit alpha;zgc:123320;Calcium/calmodulin dependent protein kinase II alpha;KIAA0968;CaMK II delta subunit;Calcium calmodulin dependent protein kinase II;CaM kinase II delta chain;p-

CaMKII (Thr286);CaMKII (p-T286)

Research 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 , γ and δ , 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 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.

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