

Anti-CaM Kinase II (Thr306) Antibody

Our Anti-CaM Kinase II (Thr306) rabbit polyclonal phosphospecific primary antibody from PhosphoSolut
Catalog # AN1326

Specification

Anti-CaM Kinase II (Thr306) Antibody - Product Information

Primary Accession
Host
Clonality
Polyclonal
Isotype
Calculated MW
P11310
Rabbit
Polyclonal
IgG
C46588

Anti-CaM Kinase II (Thr306) Antibody - Additional Information

Gene ID 34

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 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

Target/Specificity

Ca2+/Calmodulin-Dependent Protein Kinase II (CaM Kinase II) is a multifunctional calcium and calmodulin-dependent protein kinase that mediates cellular responses to a wide variety of intercellular signals (Kennedy, 1998; Schulman and Hanson, 1993). CaM Kinase II has been shown to regulate diverse cellular functions including synaptic plasticity, neurotransmitter synthesis and release, gene expression, ion channel function, carbohydrate metabolism, cytoskeletal function, and Ca2+-homeostasis (Gleason et al., 2003; Soderling, 2000; Hudmon and Schulman, 2002). Phosphorylation of Thr-286 on the kinase produces an autonomously active form of CaM Kinase II (Meng et al., 2003; Picciotto et al., 1993). CaMKIIα autophosphorylation at Thr-286 and Thr-305/Thr-306 has recently been shown to regulate kinase activity and modulate subcellular targeting and is critical for normal synaptic plasticity and learning and memory (Baucum et al., 2015).

Format

Antigen Affinity Purified from Pooled Serum

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-CaM Kinase II (Thr306) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



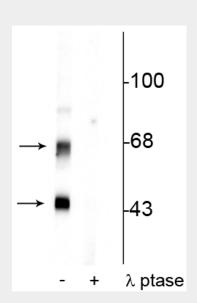
Shipping Blue Ice

Anti-CaM Kinase II (Thr306) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CaM Kinase II (Thr306) Antibody - Images



Western blot of rat brain lysate showing specific immunolabeling of the ~ 50 kDa α - and the ~ 60 kDa β -CaM Kinase II phosphorylated at Thr306 in the first lane (-). Phosphospecificity is shown in the second lane (+) where the immunolabeling is completely eliminated by lysate treatment with lambda phosphatase (λ -Ptase, 800 units/1mg protein for 30 minutes).

Anti-CaM Kinase II (Thr306) Antibody - Background

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