

phospho-CaMK2 alpha (Thr305) Polyclonal Antibody

Catalog: BS65911

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Ca²⁺/CalmodulinDependent Protein Kinase II (CaM Kinase II) is a multifunctional calcium and calmodulindependent protein kinase that mediates cellular responses to a wide variety of intercellular signals. 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. Phosphorylation of Thr286 on the kinase produces an autonomously active form of CaM Kinase II. Autophosphorylation of Thr305 inhibits the activity CaM Kinase II. Phosphorylation at this site appears to reduce the association of CaM Kinase II with the PSD and reduce LTP and learning.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

50 kD

Swiss-Prot:

Q13554

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB, 1:500 - 1:1000 | IHC, 1:50 - 1:100

Storage&Stability:

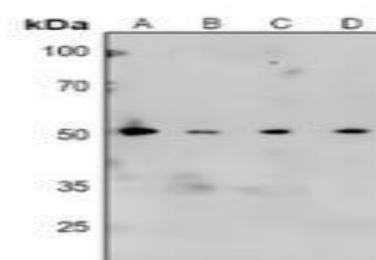
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

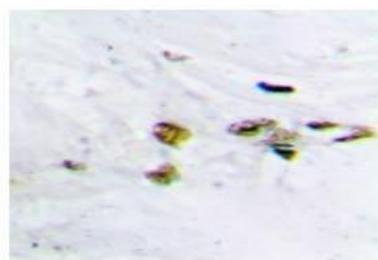
Specificity:

phospho-CaMK2 alpha (Thr305) Polyclonal Antibody detects endogenous levels of CaMK2 alpha protein only when phosphorylated at Thr305.

DATA:



Western blot analysis of phospho-CaMK2 alpha (Thr305) expression in HEK293T (A), U87MG (B), A549 (C), rat brain (D) whole cell lysates.



Immunohistochemical analysis of phospho-CaMK2 alpha (Thr305) staining in human brain formalin fixed paraffin embedded tissue section.

Note:

For research use only, not for use in diagnostic procedure.

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