

**phospho-CaMK2 alpha (Thr305) Polyclonal Antibody**

Catalog: BS65911 Host: Rabbit Reactivity: Hu-
man, Mouse, Rat, Chicken, Dog, Sheep,

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 of 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:

0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

Molecular Weight:

54 kD

Swiss-Prot:

Q13554

Purification&Purity:

affinity purified by Protein A

Applications:

WB=1:500-2000

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:

Primary: Anti- phospho-CaMK2 alpha (Thr305) at 1/1000 dilution

Note:

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

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