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## 35-1262: Polyclonal Antibody to CaMKII (Phospho-Thr286)

**Clonality:** Polyclonal

**Application:** WB

**Reactivity:** Human, Mouse, Rat

Gene : CAMK2A
Gene ID : 815
Uniprot ID : Q9UQM7
Format : Purified
Alternative Name : CAMKA
Isotype : Rabbit IgG

Immunogen Information: Peptide sequence around phosphorylation site of threonine 286 (Q-E-T(p)-V-D) derived from

Human CaMKII.

## **Description**

CaM-kinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. Member of the NMDAR signaling complex in excitatory synapses it may regulate NMDAR-dependent potentiation of the AMPAR and synaptic plasticity Pak JH, et al. Proc Natl Acad Sci U S A. 2000 Oct 10; 97(21): 11232-11237 Hudmon A, et al. J Cell Biol. Author manuscript; available in PMC 2006 May 7 Miller P, et al. PLoS Biol. 2005 Apr; 3(4): e107 Runyan JD, et al. Learn Mem. 2005 Mar; 12(2): 103-110.

## **Product Info**

**Amount :** 50 μl / 100 μl

Content: Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM

NaCl, 0.02% sodium azide and 50% glycerol.

**Storage condition :** Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

## **Application Note**

Predicted MW: 50kd, Western blotting: 1:500~1:1000

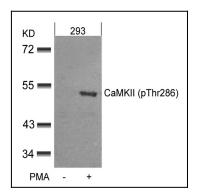


Figure 1: Western blot analysis of extracts from 293 cells untreated or treated with PMA using CaMKII(Phospho-Thr286) Antibody 35-1262.



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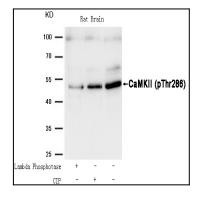


Figure 2: Western blot analysis of extracts from Rat brain tissue treated with Lambda Phosphotase or calf intestinal phosphatase (CIP),using CaMKII (Phospho-Thr286) Antibody 35-1262 .