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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

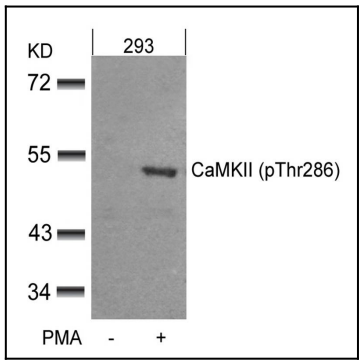

Figure 1: Western blot analysis of extracts from 293 cells untreated or treated with PMA using CaMKII(Phospho-Thr286) Antibody 35-1262 .

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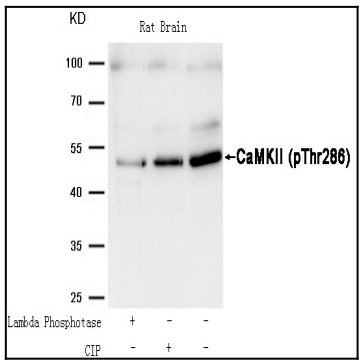

Figure 2: Western blot analysis of extracts from Rat brain tissue treated with Lambda Phosphotase or calf intestinal phosphatase (CIP),using CaMKII (Phospho-Thr286) Antibody 35-1262 .