



CaMKII (Phospho-Thr286) Antibody

#11287

Catalog Number: 11287-1, 11287-2

Amount: 50µg/50µl, 100µg/100µl

Swiss-Prot No. : Q9UQM7

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20°C/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from Human CaMKII around the phosphorylation site of threonine 286 (Q-E-Tp-V-D).

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

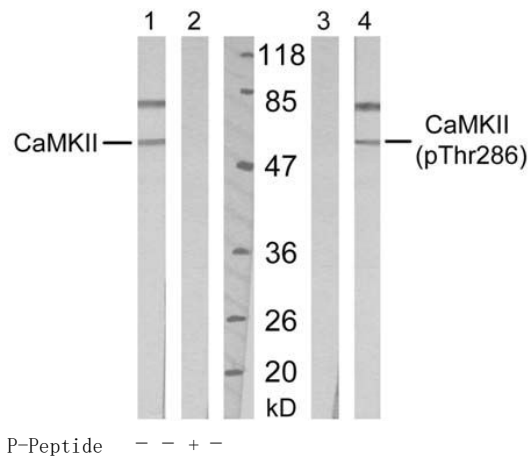
Specificity/Sensitivity: CaMKII (phospho-Thr286) antibody detects endogenous levels of CaMKII only when phosphorylated at threonine 286.

Reactivity: Human, Mouse, Rat

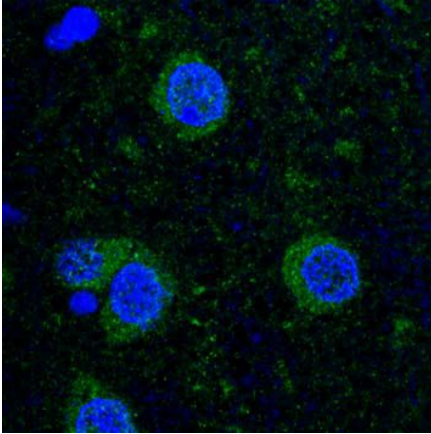
Applications:

Predicted MW: 50 kd

WB: 1:500~1:1000 IF: 1:100~1:200



Western blot analysis of extract from Mouse brain tissue, using CaMKII (Ab-286) antibody (#21279, Lane 1 and 2) and CaMKII (phospho-Thr286) antibody (#11287, Lane 3 and 4)



Immunofluorescence staining of paraffin-embedded human hippocampal region tissue from the falling sickness disease using CaMKII (phospho-Thr286)antibody (#11287, green).

Background :

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

References:

- 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.