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Product datasheet for AP02526PU-S

CAMK2A pThr286 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western Blot: 1/500~1/1000. Incubate membrane with diluted antibody in 5% nonfat milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight. Immunofluorescence: 1/100~1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from Human CaMKII around the phosphorylation site of Threonine 286 (Q-E-T*p*-V-D).
Specificity:	This antibody detects endogenous levels of CaMKII only when phosphorylated at Threonine 286.
Formulation:	PBS (without Mg2+ and Ca2+), pH 7.4 containing 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity-Chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	calcium/calmodulin dependent protein kinase II alpha
Database Link:	Entrez Gene 815 Human Q9UQM7

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Background: CaMKII (Calcium/calmodulin-dependent protein kinase II) is a ubiquitous serine/threonine protein kinase that is abundant in the brain as a major constituent of the postsynaptic density (PSD). The enzyme is an oligomeric protein composed of distinct but related subunits, alpha, beta, gamma, and delta, each encoded by a separate gene. CAMK2A assembles into heterooligomeric complexes with other CAMK2 subunits.
CaMKII is a prominent kinase in the central nervous system that may function in long term potentiation and neurotransmitter release.

Synonyms: CAMK2A, CAMK2B, CAMKA, KIAA0968, CaM-kinase II alpha chain, CaM kinase II subunit alpha, CaMK-II subunit alpha, CaM-kinase II beta chain, CaM kinase II subunit beta, CaMK-II subunit beta

Product images:

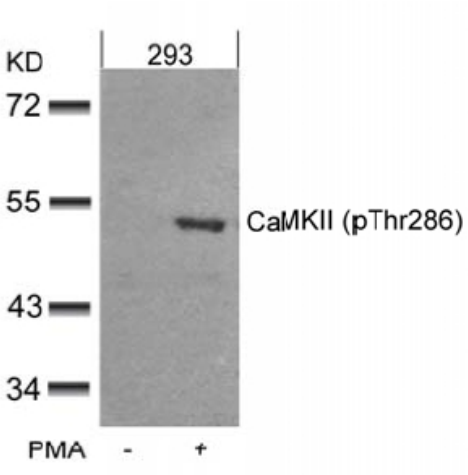

Figure 1. Western blot analysis of extract from 293 cells untreated or treated with PMA using CaMKII (Phospho-Thr286) Antibody

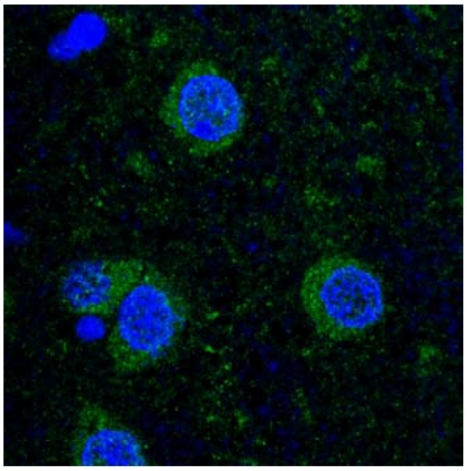

Figure 2. Immunofluorescence staining of paraffin-embedded human hippocampal region tissue from the falling sickness disease using CaMKII (phospho-Thr286) antibody (#, green).