

## CaMK2 (Phospho-Thr286) Antibody

Cat No.: ES17871

For research use only

## Overview

Product Name CaMK2 (Phospho-Thr286) Antibody

Host species Rabbit
Applications WB; ELISA

Species Cross-Reactivity Human; Mouse; Rat

**Recommended dilutions** WB 1:500-2000, ELISA(peptide)1:5000-20000 **Immunogen** Synthesized pospho peptide derived from human

CaMK2 (Phospho-Thr286)

**Specificity** This antibody detects endogenous pospho levels of

human CaMK2 (Phospho-Thr286)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

**Storage** Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name CaMK2 (Phospho-Thr286)

Gene Name CAMK2D CAMKD

**Cellular localization** Cell junction, synapse. Cell junction, synapse,

postsynaptic density . Cell projection, dendritic spine . Cell projection, dendrite . Postsynaptic lipid

rafts...

**Purification** The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal
Concentration 1 mg/ml
Observed band 54kD
Human Gene ID 817

Human Swiss-Prot Number Q9UQM7/Q13557

Alternative Names Calcium/calmodulin-dependent protein kinase type

II subunit delta (CaM kinase II subunit delta;CaMK-II

subunit delta; EC 2.7.11.17)

**Background** The product of this gene belongs to the

serine/threonine protein kinases family, and to the Ca(2+)/calmodulin-dependent protein kinases subfamily. Calcium signaling is crucial for several

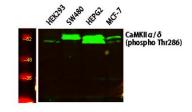


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aspects of plasticity at glutamatergic synapses. This calcium calmodulin-dependent protein kinase is composed of four different chains: alpha, beta, gamma, and delta. The alpha chain encoded by this gene is required for hippocampal long-term potentiation (LTP) and spatial learning. In addition to its calcium-calmodulin (CaM)-dependent activity, this protein can undergo autophosphorylation, resulting in CaM-independent activity. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Nov 2008],

Western blot analysis of various lysates, primary antibody was diluted at 1:1000, 4° over night, secondary antibody(cat: RS23920)was diluted at 1:10000, 37° 1hour.



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