

## Anti-Phospho-CaMK2 (Thr286) Polyclonal Antibody

### Product Details

**Ig Type:** IgG

**Reactivity:** Human, Mouse, Rat

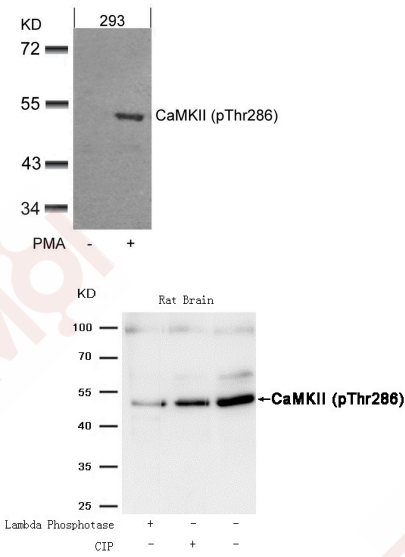
**Conjugation:** Unconjugated

**Purification:** Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.

### Applications

**Verified Activity:**

- Western blot analysis of extracts from 293 cells untreated or treated with PMA using CaMKII (Phospho-Thr286) Antibody TMAC-00544.
- Western blot analysis of extracts from Rat brain tissue treated with Lambda Phosphatase or calf intestinal phosphatase (CIP), using CaMKII (Phospho-Thr286) Antibody TMAC-00544.



**Application:** WB

### Properties

**Stability & Storage:** Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

**Shipping:** Shipping with blue ice.

### Antigen Details

Immunogen:	Peptide sequence around phosphorylation site of threonine 286 (Q-E-T(p)-V-D) derived from Human CaMKII
Antigen Species:	human
Uniprot ID:	Q9UQM7
Synonyms:	p-CaMKII (T286);CaMKII (p-T286);EC 2.7.11.17;CaMK II alpha subunit;MGC123320;Calcium calmodulin dependent protein kinase II;MGC155201;CaMKII;alpha CaMKII;CaM kinase II alpha subunit;CaMK II delta subunit;CAM2;CaMKII (p-Thr286);Calcium calmodulin dependent protein kinase II alpha-B subunit;CAMK2A;CaM kinase II delta subunit;MGC139375; Calcium/calmodulin-dependent protein kinase type IIA;PKCCD;CaMKII alpha; Calcium/calmodulin dependent protein kinase II alpha;CAMK2D;zgc:123320;CAMKB;CaM kinase II alpha chain;PK2CDD;CAMKA;zgc:112538;mKIAA0968;CaM kinase II subunit alpha; CaMK II beta subunit;p-CaMKII (Thr286);Calcium/calmodulin-dependent protein kinase(CaM kinase) II alpha;Calcium calmodulin dependent protein kinase CaM kinase II alpha;CaMK-II subunit alpha;CaM kinase II beta subunit;Calcium/calmodulin-dependent protein kinase type II subunit alpha;CaM kinase II beta chain;Calcium/Calmodulin Dependent Protein Kinase II G; R74975;CAMK2B;KCC2A;KIAA0968;CaM kinase II delta chain

### Research 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

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