# Data Sheet (Cat.No.TMAC-00544)

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

### Product Details

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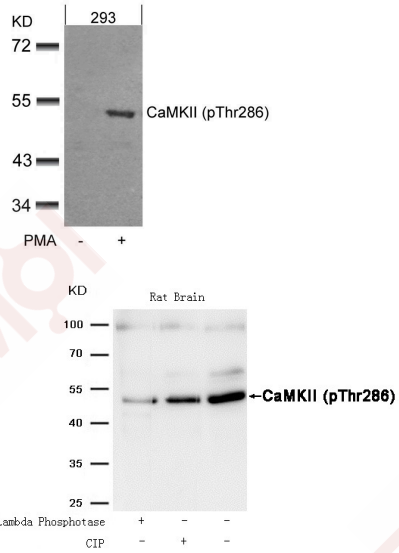
|---|---|
| Ig Type: | IgG |
| Reactivity: | Human,Mouse,Rat |
| Conjugation: | Unconjugated |
| Purification: | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide. |

### Applications

Verified Activity:

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




Application: WB

### Properties

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| 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

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|---|---|
| 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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