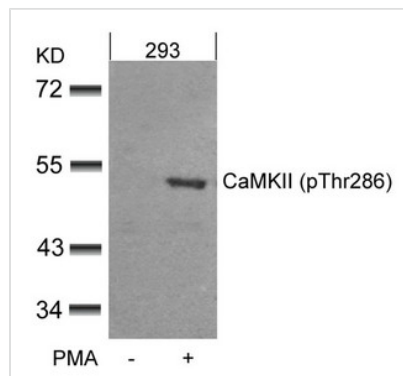


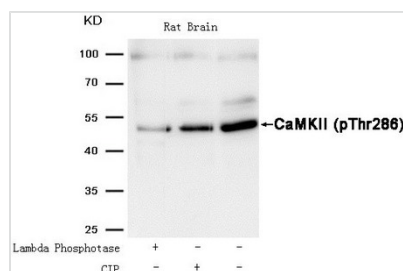


# Phospho-CAMK2A (Thr286) Antibody

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>        | CSB-PA293488                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>             | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Uniprot No.</b>         | Q9UQM7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen</b>           | Peptide sequence around phosphorylation site of threonine 286 (Q-E-T(p)-V-D) derived from Human CaMKII.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Raised In</b>           | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species Reactivity</b>  | Human,Mouse,Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Specificity</b>         | The antibody detects endogenous level of CaMKII only when phosphorylated at threonine 286.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Tested Applications</b> | ELISA,WB;WB:1:500-1:1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Relevance</b>           | <p>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</p> <p>Pak JH, et al. Proc Natl Acad Sci U S A. 2000 Oct 10; 97(21): 11232-11237<br/> Hudmon A, et al. J Cell Biol. Author manuscript; available in PMC 2006 May 7<br/> Miller P, et al. PLoS Biol. 2005 Apr; 3(4): e107<br/> Runyan JD, et al. Learn Mem. 2005 Mar; 12(2): 103-110.</p> |
| <b>Form</b>                | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purification Method</b> | 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                                                                                                                                                                                                                                                                                                                                     |
| <b>Clonality</b>           | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Alias</b>               | CAMKA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Product Type</b>        | Polyclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>             | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Target Names</b>        | CAMK2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Image</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |



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



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

**Product Modify**

**Phospho-Thr286**