

# CaMK2 (Phospho-Thr286) Antibody

Catalog # AP68181

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q9UQM7</a> , <a href="#">Q13557</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	54088

## Additional Information

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<b>Gene ID</b>	815
<b>Other Names</b>	Calcium/calmodulin-dependent protein kinase type II subunit delta (CaM kinase II subunit delta) (CaMK-II subunit delta) (EC 2.7.11.17)
<b>Dilution</b>	WB~~WB 1:500-2000, ELISA(peptide)1:5000-20000 E~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	CAMK2A
<b>Synonyms</b>	CAMKA, KIAA0968
<b>Function</b>	Calcium/calmodulin-dependent protein kinase that functions autonomously after Ca(2+)/calmodulin-binding and autophosphorylation, and is involved in various processes, such as synaptic plasticity, neurotransmitter release and long-term potentiation (PubMed: <a href="#">14722083</a> ). Member of the NMDAR signaling complex in excitatory synapses, it regulates NMDAR-dependent potentiation of the AMPAR and therefore excitatory synaptic transmission (By similarity). Regulates dendritic spine development (PubMed: <a href="#">28130356</a> ). Also regulates the migration of developing neurons (PubMed: <a href="#">29100089</a> ). Phosphorylates the transcription factor FOXO3 to activate its transcriptional activity (PubMed: <a href="#">23805378</a> ). Phosphorylates the transcription factor ETS1 in response to calcium signaling, thereby decreasing ETS1 affinity for DNA (By similarity). In response to interferon-gamma (IFN-gamma) stimulation, catalyzes phosphorylation of STAT1, stimulating the JAK- STAT signaling pathway (PubMed: <a href="#">11972023</a> ). In response to interferon- beta (IFN-beta) stimulation, stimulates the JAK-STAT signaling pathway (PubMed: <a href="#">35568036</a> ). Acts as a negative regulator of 2- arachidonoylglycerol (2-AG)-mediated synaptic

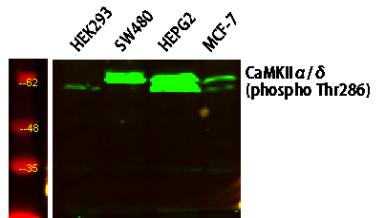
signaling via modulation of DAGLA activity (By similarity).

#### Cellular Location

Synapse {ECO:0000250 | UniProtKB:P11275}. Postsynaptic density {ECO:0000250 | UniProtKB:P11275}. Cell projection, dendritic spine. Cell projection, dendrite. Note=Postsynaptic lipid rafts {ECO:0000250 | UniProtKB:P11275}

#### Images

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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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.