

# CaMKII alpha Rabbit mAb

Catalog # AP75183

## Product Information

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

## Additional Information

Gene ID	815
Other Names	CAMK2A
Dilution	WB~~1/500-1/1000
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.

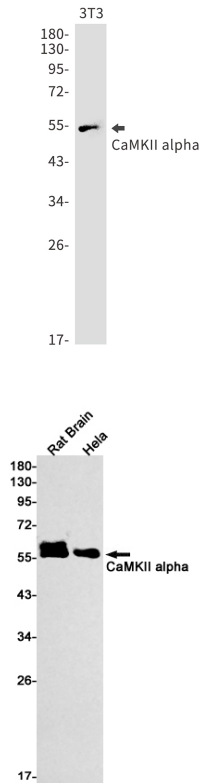
## Protein Information

Name	CAMK2A
Synonyms	CAMKA, KIAA0968
Function	<p>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).</p>
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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