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Mouse Monoclonal Antibody CaMKII α conjugated to Sepharose Beads

CatalogNo: ANT8328-S

Size 200ul

Storage Store at 4 °C for frequent use

Description

This Antagene antibody is immobilized via covalent binding of primary amino groups to Nhydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

CaMKII α (ANT0000R) Rabbit mAb

Formulation: 50% slurry in PBS pH 7.2 with 0.01mg NaN3a3 preservative.

Host Species Rabbit 	• Human, Mouse, Rat,	ReactivityWB,IHC,IF,IP,ELISA	Applications
MW • 54kD (Calc 54kD (Observ		Isotype	

Recommended Dilution Ratios

IP Basic Information

Clonality

Monoclonal

Immunogen Information

Specificity	Endogenous
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Gene name CAMK2A CAMKA KIAA0968

Protein Name

Calcium/calmodulin-dependent protein kinase type II subunit alpha (CaM kinase II subunit alpha) (CaMK-II subunit alpha) (EC 2.7.11.17)

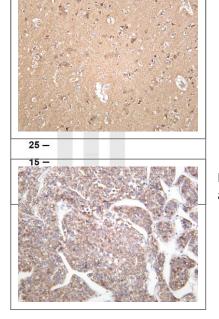
	Organism	Gene ID	UniProt ID	
	Human	<u>815</u> ;	<u>Q9UQM7</u> ;	
	Mouse	<u>12322</u> ;	<u>P11798</u> ;	
	Rat	<u>12322</u> ;	<u>P11275;</u>	
Cellular Localization	Synapse			
Function	Function: Calcium/calmodulin-dependent protein kinase that functions autonomously after Ca(2+)/calmodulin-binding and autophosphorylation, and is involved in various processes, such as synaptic plasticity, neurotransmitter release and long-term potentiation . 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 . Also regulates the migration of developing neurons . Phosphorylates the transcription factor FOXO3 to activate its transcriptional activity . Phosphorylates the transcription factor ETS1 in response to calcium signaling, thereby decreasing ETS1 affinity for DNA (By similarity). In response to interferon-gamma (IFNgamma) stimulation, catalyzes phosphorylation of STAT1, stimulating the JAK-STAT signaling pathway . In response to interferon-beta (IFN-beta) stimulation,			

stimulates the JAK-STAT signaling pathway . Acts as a negative regulator of 2-arachidonoylglycerol

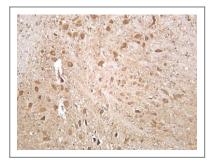
(2-AG)mediated synaptic signaling via modulation of DAGLA activity (By similarity).

Validation Data

Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-CaMKII α (ANTOOOOR) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: SH-SY5Y Lane 2: Rat brain Lane 3: Mouse brain Predicted band size: 54kDa Observed band size: 54kDa Human brain was stained with anti-CaMKII α (ANTOOOOR) rabbit antibody



Human hepatocellular carcinoma was stained with anti-CaMKII α (ANT0000R) rabbit antibody



Mouse brain was stained with anti-CaMKII α (ANT0000R) rabbit antibody

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