

产品名称: CaMKII alpha (11L11) Rabbit Monoclonal Antibody
产品货号: AMRe07883



产品概述 (Summary)

产品名称 (Production Name)	CaMKII alpha (11L11) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,FC,IP
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	CAMK2A
别名 (Alternative Names)	Alpha CaMKII; Camk2a; CAMKA; CaMKII; CaMKIINalpha; PK2CDD; PKCCD;
基因 ID (Gene ID)	815.0
蛋白 ID (SwissProt ID)	Q9UQM7.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:2000-1:10000,FC 1:100-1:200,IP 1:20-1:50
蛋白分子量 (Molecular Weight)	54kDa

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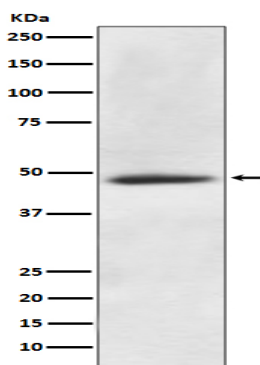
研究背景 (Background)

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. Calcium/calmodulin-dependent protein kinase that functions autonomously after Ca(2+)/calmodulin-binding and autophosphorylation, and is involved in 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 (PubMed: [28130356](http://www.uniprot.org/citations/28130356)). Also regulates the migration of developing neurons (PubMed: [29100089](http://www.uniprot.org/citations/29100089)). Phosphorylates the transcription factor FOXO3 to activate its transcriptional activity (PubMed: [23805378](http://www.uniprot.org/citations/23805378)). Acts as a negative regulator of 2- arachidonoylglycerol (2-AG)-mediated synaptic signaling via modulation of DAGLA activity (By similarity).

研究领域 (Research Area)

Neuroscience

图片 (Image Data)



Western blot analysis of CaMKII alpha expression in SH-SY5Y cell lysate.

注意事项 (Note)

For research use only .