

CaMKII alpha Rabbit mAb

Catalog No: #52187



Package Size: #52187-1 50ul #52187-2 100ul

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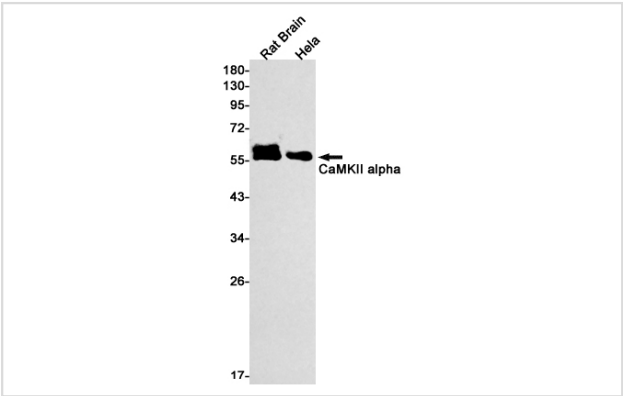
Description

Product Name	CaMKII alpha Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S09-9E5
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human CaMKII
Conjugates	Unconjugated
Modification	Unmodification
Other Names	CAMKA; MRD53; MRT63; CaMKIINalpha
Accession No.	Swiss-Prot:Q9UQM7GeneID:815
Uniprot	Q9UQM7
GeneID	815
Calculated MW	Calculated MW: 54 kDa; Observed MW: 54 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Application Details

WB: 1/1000-1/2000;

Images



Western blot detection of CaMKII alpha in Rat Brain,Hela cell lysates using CaMKII alpha Rabbit mAb(1:1000 diluted).Predicted band size:54kDa.Observed band size:54kDa.

## Background

Swiss-Prot Acc.Q9UQM7. Calcium/calmodulin-dependent protein kinase that functions autonomously after  $\text{Ca}^{2+}$ /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. Regulates dendritic spine development (PubMed:28130356). Also regulates the migration of developing neurons (PubMed:29100089). Phosphorylates the transcription factor FOXO3 to activate its transcriptional activity (PubMed:23805378).

Note: This product is for in vitro research use only