

Product Name: CaMKII alpha Rabbit Monoclonal Antibody
Catalog #: AMRe87133

Summary

Production Name	CaMKII alpha Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal antibody
Host	Rabbit
Application	WB, FC
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% protective protein. Stable for 12 months from date of receipt.
Purification	Affinity Purification

Immunogen

Gene Name	CaMKII alpha
Alternative Names	CAMKA; MRD53; MRT63; CaMKIIalpha; CaMKIINalpha
Gene ID	815
SwissProt ID	Q9UQM7.

Application

Dilution Ratio	WB: 1:2000-1:20000 FC: 1:200-1:1000
Molecular Weight	Calculated MW:54 kDa; Observed MW:54 kDa

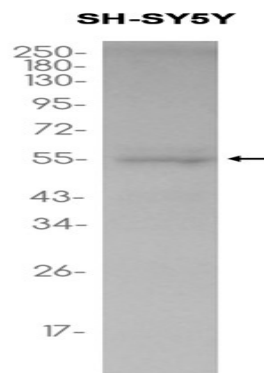
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Background

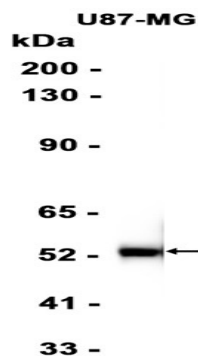
The product of this gene belongs to the serine/threonine protein kinases family, and to the Ca(2+)/calmodulin-dependent protein kinases subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. This calcium calmodulin-dependent protein kinase is composed of four different chains: alpha, beta, gamma, and delta. The alpha chain encoded by this gene is required for hippocampal long-term potentiation (LTP) and spatial learning. In addition to its calcium-calmodulin (CaM)-dependent activity, this protein can undergo autophosphorylation, resulting in CaM-independent activity. Several transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jun 2018]

Research Area

Image Data



Western blot analysis of extracts from SH-SY5Y cells using AMRe87133 at 1:1000.



Western blot analysis of extracts from U-87MG cells using AMRe87133 at 1:1000.

Note

For research use only.



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