

Antibody

Catalog #: AMRe07883



Summary

CaMKII alpha (11L11) Rabbit Monoclonal Antibody **Production Name**

Rabbit Monoclonal Antibody Description

Host Rabbit **Application** WB,ELISA

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	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.
Purification	Affinity purification

Immunogen

Gene Name CAMK2A

Alternative Names Alpha CaMKII; Camk2a; CAMKA; CaMKII; CaMKIINalpha; PK2CDD; PKCCD;

Gene ID 815.0

SwissProt ID Q9UQM7.

Application

Dilution Ratio WB 1:1000~1:5000

Molecular Weight 54kDa

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

Product Name: CaMKII alpha (11L11) Rabbit Monoclonal

Antibody

Catalog #: AMRe07883

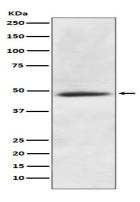


Background

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 (a>). Also regulates the migration of developing neurons (PubMed:29100089 (a>). Phosphorylates the transcription factor FOXO3 to activate its transcriptional activity (PubMed:23805378 (a>). Acts as a negative regulator of 2- arachidonoylglycerol (2-AG)-mediated synaptic signaling via modulation of DAGLA activity (By similarity).

Research Area

Image Data



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

Note

For research use only.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838