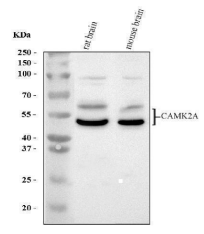
CAMK2A Antibody (RQ4384)

Catalog No.	Formulation	Size
RQ4384	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9UQM7
Localization	Cell junction
Applications	Western blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml (human recombinant protein)
Limitations	This CAMK2A antibody is available for research use only.



CAMK2A Antibody Rat and Mouse Brain WB. Western blot testing of 1) rat brain and 2) mouse brain tissue lysates with CAMK2A antibody at 0.5 ug/ml. Immunoreactive bands are detected at approximately 54 and 60 kDa, consistent with the expected molecular weight of CAMK2A and its phosphorylated or post-translationally modified forms. The results demonstrate specific detection of Calcium/Calmodulin Dependent Protein Kinase II Alpha (CAMK2A), a serine/threonine kinase that regulates synaptic plasticity, learning, memory, and neuronal signal transduction in the central nervous system.

Description

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 (By similarity). Phosphorylates transcription factor FOXO3 on 'Ser-298'. Activates FOXO3 transcriptional activity (By similarity). [UniProt]

For additional information on CAMK II alpha biology, calcium-dependent signaling and validated research applications, visit our CAMK II alpha Antibody page.

Application Notes

Optimal dilution of the CAMK2A antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids L392-R457 was used as the immunogen for the CAMK2A antibody.

Storage

After reconstitution, the CAMK2A antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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