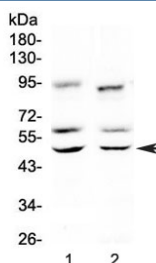


CAMK2A Antibody (RQ4384)

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 and 0.025% sodium azide
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.



Western blot testing of 1) rat brain and 2) mouse brain lysate with CAMK2A antibody at 0.5ug/ml. Predicted molecular weight: ~54 kDa. An additional ~65 kDa band is often observed.

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]

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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.