

PACO64183

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## Product Information

**Size:**

50ul

**Reactivity:**

Human

**Source:**

Rabbit

**Isotype:**

IgG

**Applications:**

ELISA, WB, IHC, IF

**Recommended dilutions:**

WB:1:1000-1:5000, IHC:1:100-1:500,  
IF:1:100-1:500

**Protein 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. Phosphorylates transcription factor FOXO3 on 'Ser-298'. Activates FOXO3 transcriptional activity.

**Gene ID:**

CAMK2A

**Uniprot**

Q9UQM7

**Synonyms:**

Calcium/calmodulin-dependent protein kinase type II subunit alpha (CaM kinase II subunit alpha) (CaMK-II subunit alpha) (EC 2.7.11.17), CAMK2A, CAMKA KIAA0968

**Immunogen:**

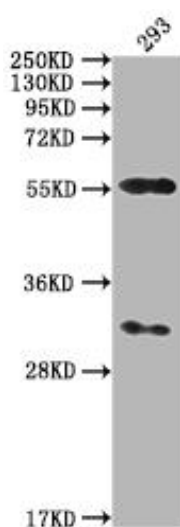
Recombinant Human Calcium/calmodulin-dependent protein kinase type II subunit &alpha; protein (321-478AA).

**Storage:**

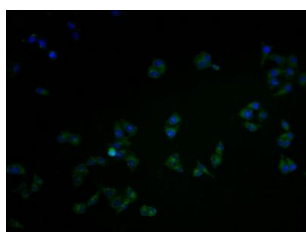
Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, PH 7.4

## Product Images

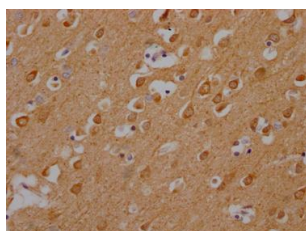
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Western Blot. Positive WB detected in: 293 whole cell lysate. All lanes: CAMK2A antibody at 1:2000. Secondary. Goat polyclonal to rabbit IgG at 1/50000 dilution. Predicted band size: 55, 56 kDa. Observed band size: 55 kDa.



Immunofluorescence staining of HeLa cells with PACO64183 at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IHC image of PACO64183 diluted at 1:200 and staining in paraffin-embedded human brain tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.