

# CAMK2A Rabbit pAb

Catalog No.: A17916 **4 Publications**

## Basic Information

### Observed MW

54kDa

### Calculated MW

54kDa

### Category

Primary antibody

### Applications

ELISA,WB,IF/ICC

### Cross-Reactivity

Human, Mouse, Rat

## 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.

## Recommended Dilutions

WB 1:500 - 1:1000

IF/ICC 1:50 - 1:200

## Immunogen Information

### Gene ID

815

### Swiss Prot

Q9UQM7

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 300-400 of human CAMK2A (NP\_741960.1).

### Synonyms

CAMKA; MRD53; MRT63; CaMKIIalpha; CaMKIINalpha; CAMK2A

## Contact

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

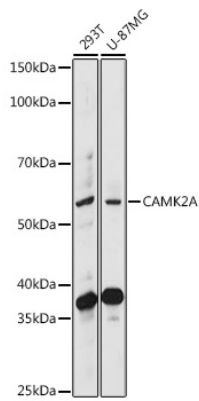
### Storage

Store at -20°C. Avoid freeze / thaw cycles.

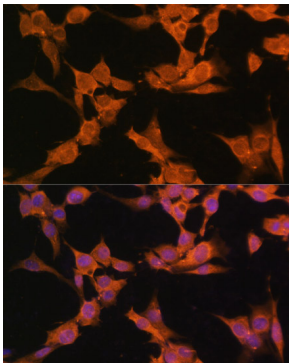
Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

## Validation Data

---



Western blot analysis of various lysates using CAMK2A Rabbit pAb (A17916) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 180s.



Immunofluorescence analysis of NIH/3T3 cells using CAMK2A Rabbit pAb (A17916) at dilution of 1:100. Blue: DAPI for nuclear staining.