Datasheet for ABIN670176

# anti-CAMK2A antibody (AA 401-478)

## 1 Image

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## Overview

| | |
|---|---|
| Quantity: | 100 µL |
| Target: | CAMK2A |
| Binding Specificity: | AA 401-478 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CAMK2A antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

## Product Details

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| Immunogen: | KLH conjugated synthetic peptide derived from human CaMK2a |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Rat |
| Predicted Reactivity: | Dog,Cow,Pig,Chicken,Guinea Pig |
| Purification: | Purified by Protein A. |

## Target Details

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|---|---|
| Target: | CAMK2A |

## Target Details

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| Alternative Name: | CaMK2 alpha (CAMK2A Products) |
| Background: | Synonyms: alpha CaMKII, Calcium / Calmodulin Dependent Protein Kinase II G, Calcium calmodulin dependent protein kinase CaM kinase II alpha, Calcium calmodulin dependent protein kinase II alpha-B subunit, Calcium calmodulin dependent protein kinase II, Calcium/calmodulin dependent protein kinase II alpha, Calcium/calmodulin-dependent protein kinase CaM kinase II alpha, Calcium/calmodulin-dependent protein kinase II alpha, Calcium/calmodulin-dependent protein kinase II-alpha, Calcium/calmodulin-dependent protein kinase type II subunit alpha, Calcium/calmodulin-dependent protein kinase type IIA, CaM kinase II alpha chain, CaM kinase II alpha subunit, CaM kinase II subunit alpha, CAM2, CaMK II alpha subunit, CaMK-II subunit alpha, CAMK2A, CAMKA, CAMKB, CaMKII, CaMK 2a, CaMK2a, KCC2A_HUMAN.<br>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. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Nov 2008]. |
| Gene ID: | 815 |
| Pathways: | WNT Signaling, Interferon-gamma Pathway, Myometrial Relaxation and Contraction |

## Application Details

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|---|---|
| Application Notes: | WB 1:300-5000<br>ELISA 1:500-1000<br>FCM 1:20-100<br>IHC-P 1:200-400<br>IHC-F 1:100-500<br>IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
| Restrictions: | For Research Use only |

## Handling

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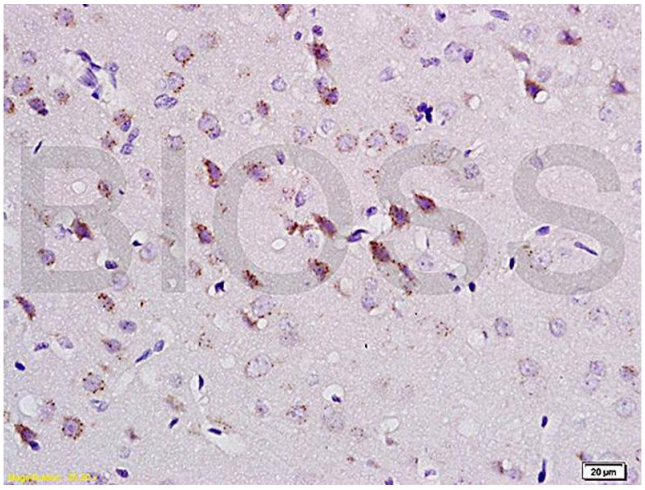
|---|---|
| Format: | Liquid |
| Concentration: | 1 μg/μL |
| Buffer: | 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |
| Expiry Date: | 12 months |

## Images




**Immunohistochemistry**

**Image 1.** Formalin-fixed and paraffin embedded rat brain tissue labeled with Anti-CaMK2a Polyclonal Antibody (ABIN670176), Unconjugatedat 1:200, followed by conjugation to the secondary antibody and DAB staining