

## DATASHEET

# CaMK2 alpha Mouse Monoclonal Antibody(C3662)

CAT. NO. AMA03274

### KEY FEATURES

Target	CaMK2 alpha	Source / Host	Mouse
Reactivity	Rat	Clonality	Monoclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Mouse IgM. Supplied in crude ascites with 0.01% sodium azide.	Storage	at-20°C

### BACKGROUND

This gene encodes a protein that regulates autophagy, a catabolic process of degradation induced by starvation. The encoded protein is a component of the phosphatidylinositol-3-kinase (PI3K) complex which mediates vesicle-trafficking processes. This protein is thought to play a role in multiple cellular processes, including tumorigenesis, neurodegeneration and apoptosis. Alternative splicing results in multiple transcript variants.

### APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:4000
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\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

### PRODUCT OVERVIEW

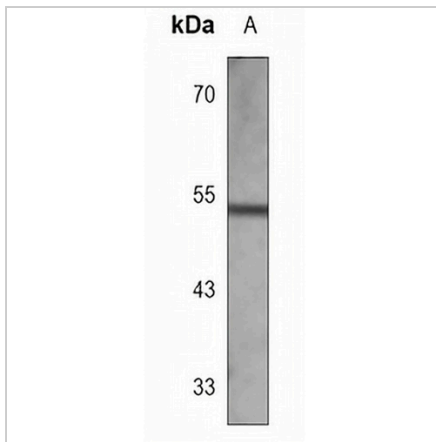
Description	Mouse monoclonal antibody to CaMK2 alpha
Specificity	Recognizes endogenous levels of CaMK2 alpha protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human CaMK2 alpha. The exact sequence is proprietary.
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 54 kD; Observed: 54 kD
Form/Buffer	Mouse IgM. Supplied in crude ascites with 0.01% sodium azide.
Alternative Names	CAMKA; KIAA0968; Calcium/calmodulin-dependent protein kinase type II subunit alpha; CaM kinase II subunit alpha; CaMK-II subunit alpha
Gene Symbol	CAMK2A
Entrez Gene	25400(Rat)
SwissProt	P11798(Mouse); P11275(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Western blot analysis of CaMK2 alpha expression in rat brain (A) whole cell lysates.  
(Predicted band size: 54 kD; Observed band size: 54 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.