

**Product Name: CAMK2G Mouse Monoclonal Antibody**  
**Catalog #: AMM81324**



## Summary

<b>Production Name</b>	CAMK2G Mouse Monoclonal Antibody
<b>Description</b>	Mouse Monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,FC,ELISA
<b>Reactivity</b>	Human,Mouse,Rat,Monkey,Rabbit

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide.
<b>Purification</b>	Affinity Purification

## Immunogen

<b>Gene Name</b>	CAMK2G
<b>Alternative Names</b>	CAMK; CAMKG; CAMK-II
<b>Gene ID</b>	818.0
<b>SwissProt ID</b>	Q13555 .Purified recombinant fragment of human CAMK2G (AA: 322-481) expressed in E. Coli.

## Application

<b>Dilution Ratio</b>	WB:1:500-1:2000,IHC:1:100-1:500,FC:1:200-1:400,ELISA:1:10000
<b>Molecular Weight</b>	62.6kDa

## Background

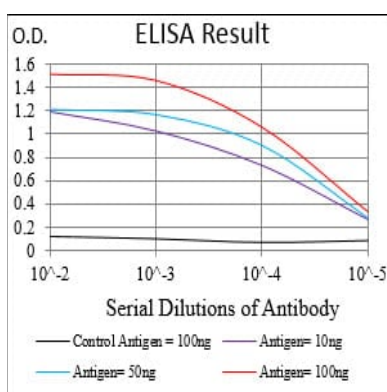
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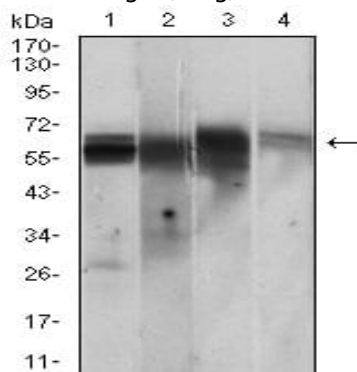
The product of this gene is one of the four subunits of an enzyme which belongs to the serine/threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a gamma chain. Many alternatively spliced transcripts encoding different isoforms have been described but the full-length nature of all the variants has not been determined.

## Research Area

## Image Data

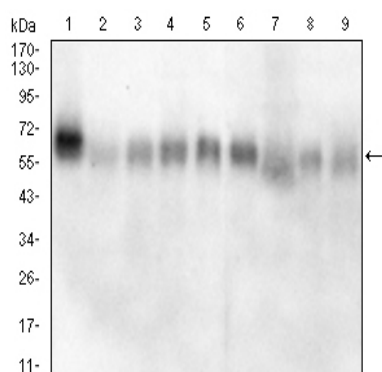


Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);

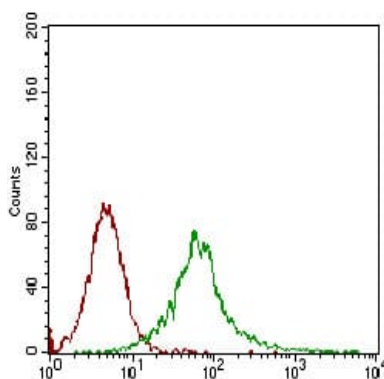


Western blot analysis using CAMK2G mouse mAb against PC-12 (1), Jurkat (2), T47D (3), HepG2 (4) cell lysate.

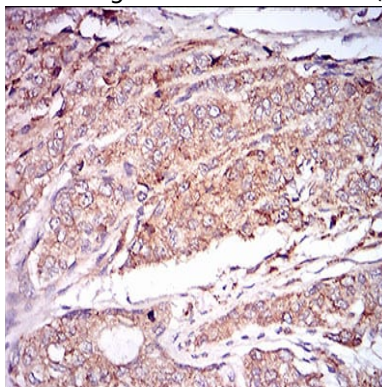
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Western blot analysis using CAMK2G mouse mAb against PC-12(1)Raw264.7 (2)NIH/3T3(3) NRK (4) C2C12(5)C6(6)F9(7)COS-7(8)CHO3D10(9) cell lysate.

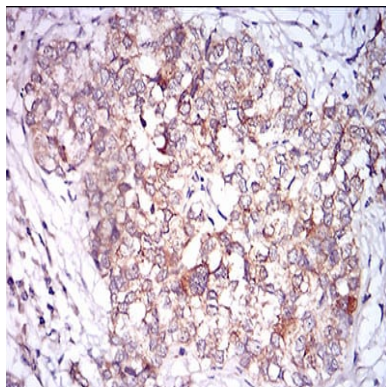


Flow cytometric analysis of Jurkat cells using CAMK2G mouse mAb (green) and negative control (red).

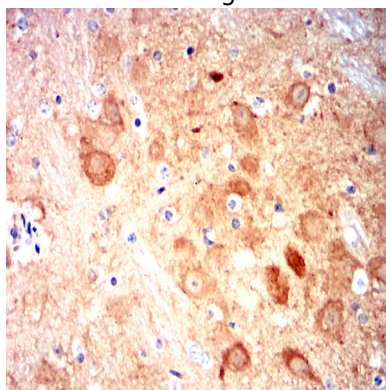


Immunohistochemical analysis of paraffin-embedded human prostate cancer tissues using CAMK2G mouse mAb with DAB staining.

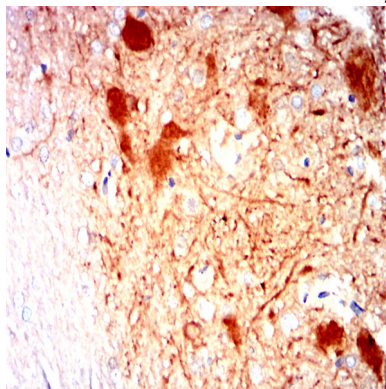
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Immunohistochemical analysis of paraffin-embedded human bladder cancer tissues using CAMK2G mouse mAb with DAB staining.



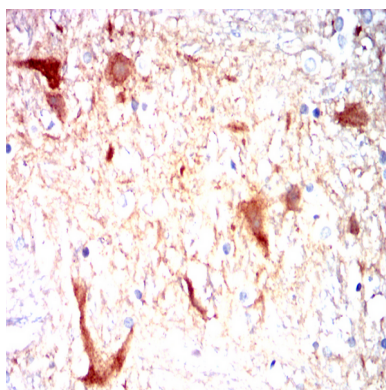
Immunohistochemical analysis of paraffin-embedded Mouse cerebellum using CAMK2G mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rat cerebellum using CAMK2G mouse mAb with DAB staining.

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Immunohistochemical analysis of paraffin-embedded Rabbit spinal cord using CAMK2G mouse mAb with DAB staining.

**Note**

For research use only.