

# CAMK4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CAMK4.

Catalog # AT1379a

## Product Information

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<b>Application</b>	WB, IHC, IF, E
<b>Primary Accession</b>	<a href="#">Q16566</a>
<b>Other Accession</b>	<a href="#">BC025687</a>
<b>Reactivity</b>	Human
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG1 kappa
<b>Clone Names</b>	1A3
<b>Calculated MW</b>	51926

## Additional Information

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<b>Gene ID</b>	814
<b>Other Names</b>	Calcium/calmodulin-dependent protein kinase type IV, CaMK IV, CaM kinase-GR, CAMK4, CAMK, CAMK-GR, CAMKIV
<b>Target/Specificity</b>	CAMK4 (AAH25687.1, 1 a.a. ~ 473 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	CAMK4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

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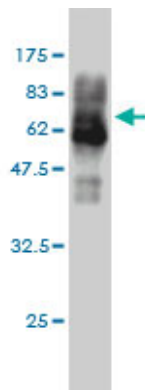
The product of this gene belongs to the serine/threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This enzyme is a multifunctional serine/threonine protein kinase with limited tissue distribution, that has been implicated in transcriptional regulation in lymphocytes, neurons and male germ cells.

## References

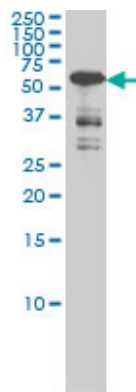
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1. Acid activation of Trpv1 leads to an up-regulation of calcitonin gene-related peptide expression in dorsal root ganglion neurons via the CaMK-CREB cascade: a potential mechanism of inflammatory pain. Nakanishi

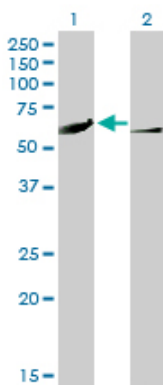
## Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (77.66 KDa) .

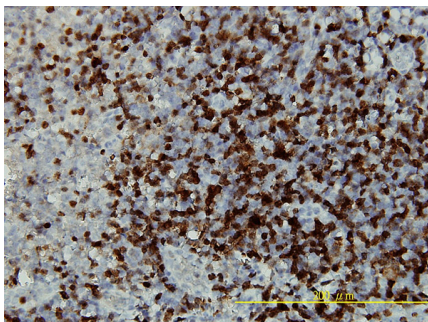


CAMK4 monoclonal antibody (M01), clone 1A3 Western Blot analysis of CAMK4 expression in Jurkat (Cat # AT1379a )



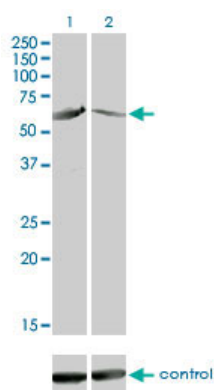
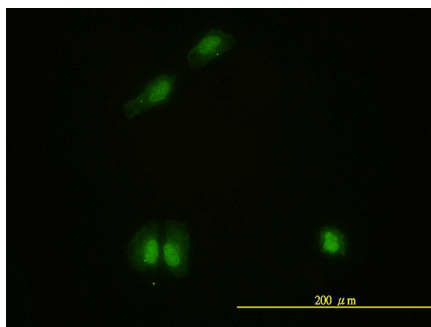
Western Blot analysis of CAMK4 expression in transfected 293T cell line by CAMK4 monoclonal antibody (M01), clone 1A3.

Lane 1: CAMK4 transfected lysate(52.14 KDa).  
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to CAMK4 on formalin-fixed paraffin-embedded human tonsil tissue. [antibody concentration 5 ug/ml]

Immunofluorescence of monoclonal antibody to CAMK4 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged CAMK4 is approximately 1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.