

CAMK4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CAMK4.

Catalog # AT1379a

Specification

CAMK4 Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC, IF
Primary Accession	Q16566
Other Accession	BC025687
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 kappa
Calculated MW	51926

CAMK4 Antibody (monoclonal) (M01) - Additional Information

Gene ID 814

Other Names

Calcium/calmodulin-dependent protein kinase type IV, CaMK IV, CaM kinase-GR, CAMK4, CAMK, CAMK-GR, CAMKIV

Target/Specificity

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.

Dilution

WB~~1:500~1000

IHC~~1:100~500

IF~~1:50~200

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

CAMK4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

CAMK4 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

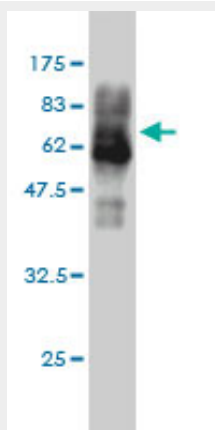
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

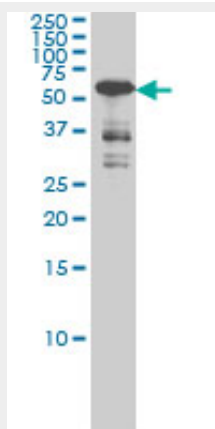
CAMK4 Antibody (monoclonal) (M01) - Images



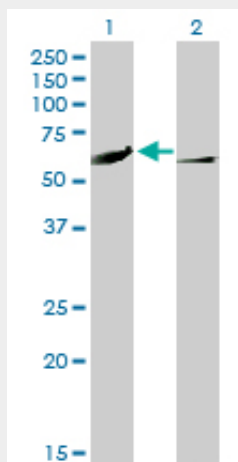
Immunofluorescence of monoclonal antibody to CAMK4 on HeLa cell. [antibody concentration 10 ug/ml]



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



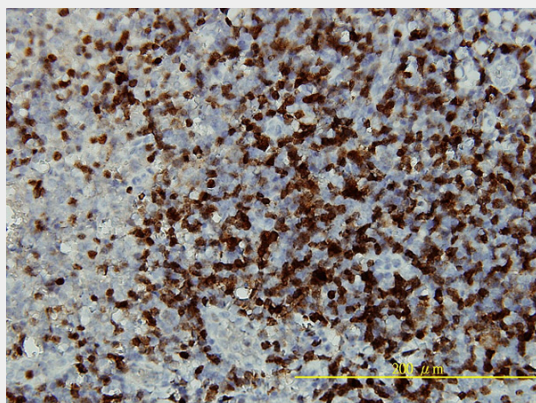
CAMK4 monoclonal antibody (M01), clone 1A3 Western Blot analysis of CAMK4 expression in Jurkat (Cat # AT1379a)



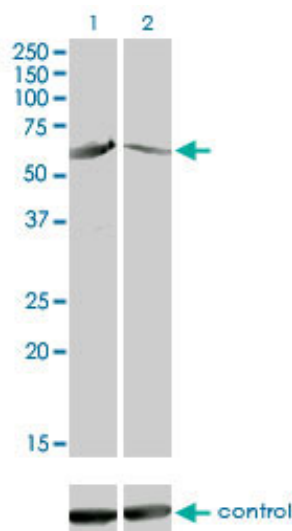
Western Blot analysis of CAMK4 expression in transfected 293T cell line by CAMK4 monoclonal antibody (M01), clone 1A3.

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]



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

CAMK4 Antibody (monoclonal) (M01) - Background

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.

CAMK4 Antibody (monoclonal) (M01) - References

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 M, Hata K, Nagayama T, Sakurai T, Nishisho T, Wakabayashi H, Hiraga T, Ebisu S, Yoneda T. *Mol Biol Cell*. 2010 Aug 1;21(15):2568-77. Epub 2010 Jun 9.