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CAMK4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CAMK4.
Catalog # AT1379a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q16566
Other Accession	BC025687
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	1A3
Calculated MW	51926

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 E~~N/A
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.

Background

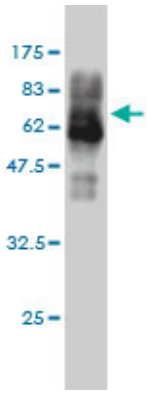
The product of this gene belongs to the serine/threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This enzyme is a multifunctional serine/threonine protein kinase with limited tissue distribution, that has been implicated in transcriptional regulation in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

References

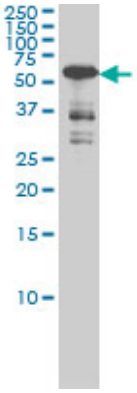
1.Acid activation of Trpv1 leads to an up-regulation of calcitonin gene-related peptide expression in dorsal root ganglion neurons via the CaMK-CREB cascade: a potential mechanism of inflammatory pain.Nakanishi

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.

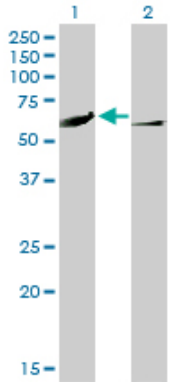
Images



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

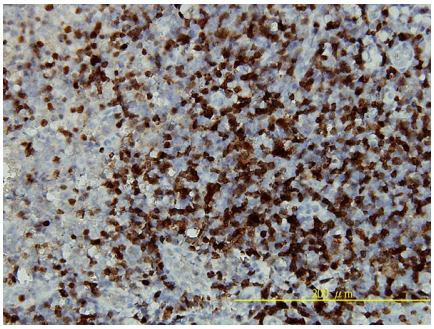


CAMK4 monoclonal antibody (M01), clone 1A3 Western Blot analysis of CAMK4 expression in Jurkat ((Cat # AT1379a)



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

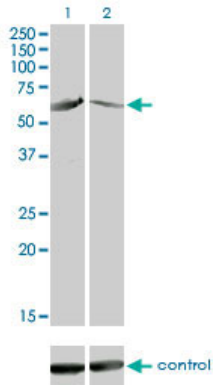
Lane 1: CAMK4 transfected lysate(52.14 KDa).
Lane 2: Non-transfected lysate.



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'.