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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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CAMK4 monoclonal antibody (M01), clone 1A3

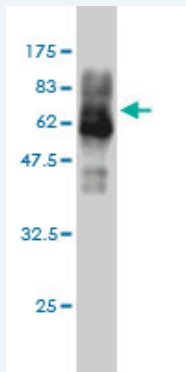
Catalog # : H00000814-M01

規格 : [100 ug]

[List All](#)

Specification

Product Description:	Mouse monoclonal antibody raised against a full length recombinant CAMK4.
Immunogen:	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.
Sequence:	MLKVTVPSCSASSCSSVTASAAPGTASLVPDYWIDGSNRDALSDFFVEVE SELGRGATSIMYRCKQKGTQKPYALKVLKKTVDKKIVRTEIGVLLRLSHPN IILKKEIFETPTEISLVLELVTGGELFDRIVEKGYYSERDAADAVKQILEAVA YLHENGIVHRDLKPENLLYATPAPDAPLKIADFGLSKIVEHQVLMKTVCGT PGYCAPEILRGCAYGPEVDMWSVGIIYILLCGFEPFYDERGDQFMFRRI LNCEYYFISPWWDEVSLNAKDLVRKLVLDPKKRLTTFQALQHPWVTGK AANFVHMDTAQKKLQEFNARRKLKAAVKAVVASSRLGSASSSHGSIQES HKASRDPSPIQDGNEDMKAIPEGEKIQGDGAQAAVKGAQAELMKVQALE KVKGADINAEAEAPKMVPAVEDGIKVADLEEEGLAEELKKTVEEAAAPR EGQGSSAVGFVPPQDVLPEY
Host:	Mouse
Reactivity:	Human
Isotype:	IgG1 kappa
Quality Control Testing:	Antibody Reactive Against Recombinant Protein.



Western Blot detection against Immunogen (77.66 KDa) .

Storage Buffer: In 1x PBS, pH 7.4

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

MSDS: [Download](#)

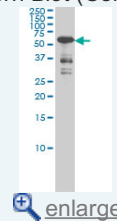
Datasheet: [Download](#)

Publication Reference

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,

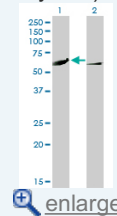
Application Image

Western Blot (Cell lysate)



[enlarge](#)

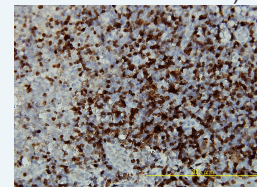
Western Blot (Transfected lysate)



[enlarge](#)

Western Blot (Recombinant protein)

Immunohistochemistry
(Formalin/PFA-fixed paraffin-embedded sections)



[enlarge](#)

Immunofluorescence

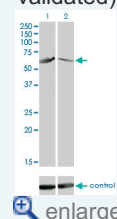


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Sandwich ELISA (Recombinant protein)

ELISA

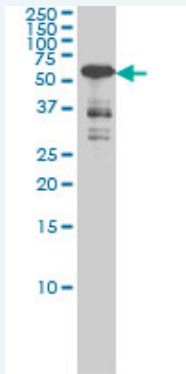
RNAi Knockdown (Antibody validated)



[enlarge](#)

Applications

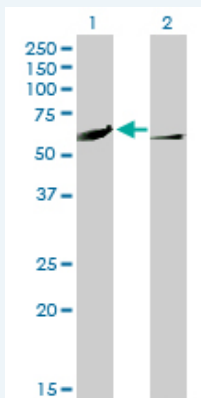
Western Blot (Cell lysate)



CAMK4 monoclonal antibody (M01), clone 1A3 Western Blot analysis of CAMK4 expression in Jurkat (Cat # L017V1).

 [Protocol Download](#)

Western Blot (Transfected lysate)




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

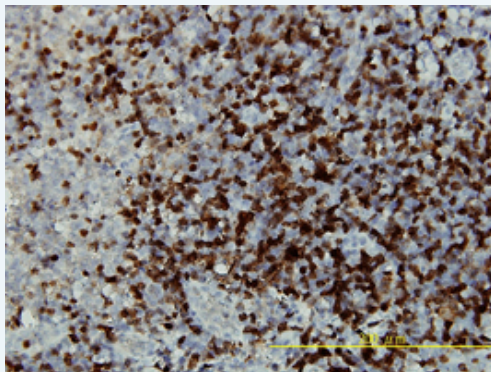
Lane 1: CAMK4 transfected lysate(52.14 KDa).
Lane 2: Non-transfected lysate.


 [Protocol Download](#)

Western Blot (Recombinant protein)

 [Protocol Download](#)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

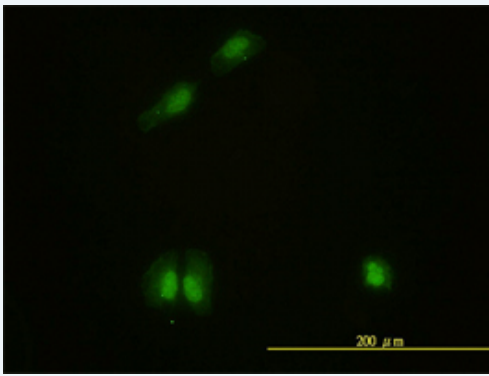


 [enlarge this image](#)

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

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Immunofluorescence



[enlarge this image](#)

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

[Protocol Download](#)

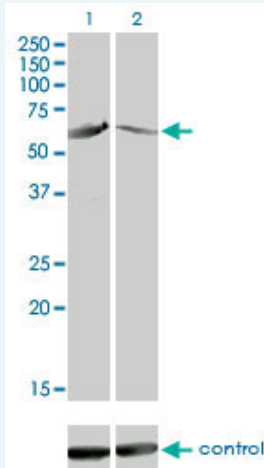
Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

ELISA

RNAi Knockdown (Antibody validated)



Western blot analysis of CAMK4 over-expressed 293 cell line, cotransfected with CAMK4 Validated Chimera RNAi (Cat # H00000814-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with CAMK4 monoclonal antibody (M01) clone 1A3 (Cat # H00000814-M01). GAPDH (36.1 kDa) used as specificity and loading control.

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Gene Information

Entrez GeneID: [814](#)

GeneBank [BC025687](#)

Accession#:

Protein [AAH25687.1](#)

Accession#:

Gene Name: CAMK4

Gene Alias: CaMK-GR,MGC36771

Gene Description: calcium/calmodulin-dependent protein kinase IV

Omim ID: [114080](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: 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. [provided by RefSeq]

Other Designations: CAM kinase IV, CAM kinase- GR, brain Ca(2+)-calmodulin-dependent protein kinase type IV, brain Ca⁺⁺-calmodulin-dependent protein kinase type IV, calcium/calmodulin-dependent protein kinase type IV catalytic chain

Gene Pathway

[Calcium signaling pathway](#) [Long-term potentiation](#) [Neurotrophin signaling pathway](#)

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