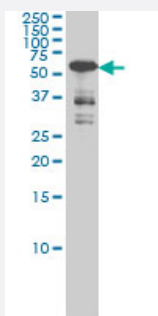


CAMK4 monoclonal antibody (M01), clone 1A3

Catalog # H00000814-M01

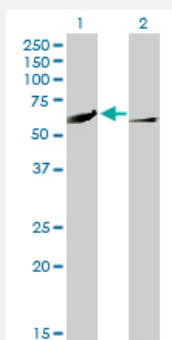
Size 100 ug

Applications



Western Blot (Cell lysate)

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

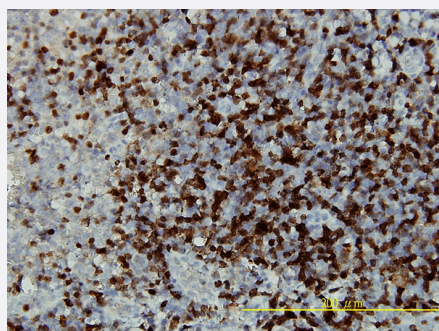


Western Blot (Transfected lysate)

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

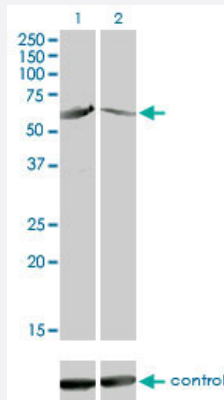
Lane 1: CAMK4 transfected lysate(52.14 KDa).

Lane 2: Non-transfected lysate.



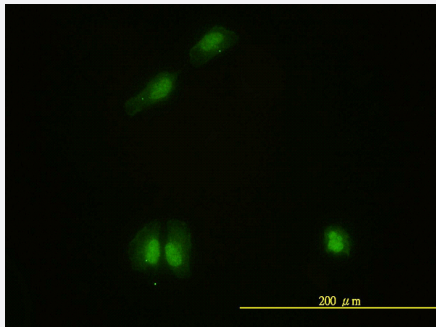
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



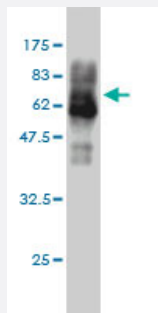
RNAi Knockdown (Antibody validated)

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.



Immunofluorescence

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



Western Blot detection against Immunogen (77.66 KDa) .

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	MLKVTVPSCSASSCSSVTASAAPGTASLVPDYWIDGSNRDALSDFFEVESELGRGATSIVYRCK QKGTQKPYALKVLKKTVDKKMRTEIGVLLRLSHPNIIKLKEIFETPTEISLVLELVTGGELFDRMEKG YYSERDAADAVKQILEAVAYLHENGVMHRDLKPENLLYATPAPDAPLKIADFGLSKIVEHQVLMKTV CGTPGYCAPEILRGCAYGPEVDMWSVGIIYILLCGFEPFYDERGDQFMFRRILNCEYYFISPWWDD EVSLNAKDLVRKLMVLDPPKKRLTTFQALQHPWVTGKAANFVHMDTAQKKLQEFNARRKLKAAVK AVVASSRLGSASSSHGSIQESHKASRDPSPIQDGNEDMKAIPERGEKIQGDGAQAAVKGAQAELM KVQALEKVKGADINAEAPKMVPKAVEDGIKVADLELEEGLAEKLTVEEAAAPREGQGSSAV GFEVPQQDVILPEY

Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (81); Rat (79)
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.

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)

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

[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.

[Protocol Download](#)

- Immunofluorescence

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

Gene Info — CAMK4

Entrez GeneID [814](#)

GeneBank Accession# [BC025687](#)

Protein Accession# [AAH25687.1](#)

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

Publication Reference

- [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.

Molecular Biology of the Cell 2010 Aug; 21(15):2568.

Application: IHC-P, Rat, Rat dorsal root ganglia

Pathway

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

Disease

- [Alcoholism](#)
- [Azoospermia](#)
- [Genetic Predisposition to Disease](#)
- [Narcolepsy](#)
- [Oligospermia](#)
- [Tobacco Use Disorder](#)