

CAMKK1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CAMKK1.

Catalog # AT1380a

Product Information

Application	WB, IHC, E
Primary Accession	Q8N5S9
Other Accession	BC031647
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1F6
Calculated MW	55735

Additional Information

Gene ID	84254
Other Names	Calcium/calmodulin-dependent protein kinase kinase 1, CaM-KK 1, CaM-kinase kinase 1, CaMKK 1, CaM-kinase IV kinase, Calcium/calmodulin-dependent protein kinase kinase alpha, CaM-KK alpha, CaM-kinase kinase alpha, CaMKK alpha, CAMKK1, CAMKKA
Target/Specificity	CAMKK1 (AAH31647, 1 a.a. ~ 520 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 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	CAMKK1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

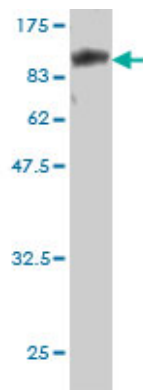
Background

The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This protein plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade. Three transcript variants encoding two distinct isoforms have been identified for this gene.

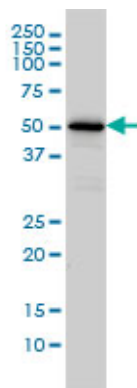
References

A Large-scale genetic association study of esophageal adenocarcinoma risk. Liu CY, et al. Carcinogenesis, 2010 Jul. PMID 20453000. International Lung Cancer Consortium: coordinated association study of 10 potential lung cancer susceptibility variants. Truong T, et al. Carcinogenesis, 2010 Apr. PMID 20106900. Adiponectin activates AMP-activated protein kinase in muscle cells via APPL1/LKB1-dependent and phospholipase C/Ca²⁺/Ca²⁺/calmodulin-dependent protein kinase kinase-dependent pathways. Zhou L, et al. J Biol Chem, 2009 Aug 14. PMID 19520843. Genome-wide and candidate gene association study of cigarette smoking behaviors. Caporaso N, et al. PLoS One, 2009. PMID 19247474. CaM kinase I alpha-induced phosphorylation of Drp1 regulates mitochondrial morphology. Han XJ, et al. J Cell Biol, 2008 Aug 11. PMID 18695047.

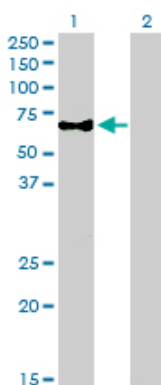
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (82.94 KDa) .



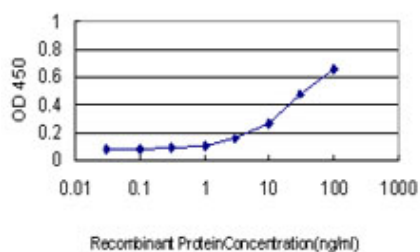
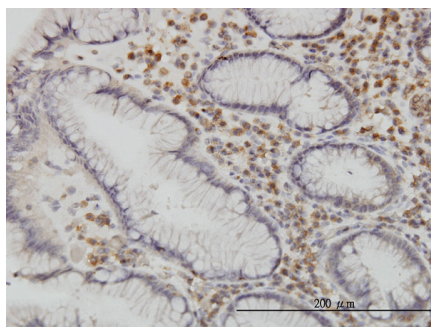
CAMKK1 monoclonal antibody (M01), clone 1F6 Western Blot analysis of CAMKK1 expression in Jurkat (Cat # AT1380a)



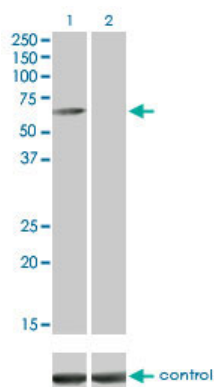
Western Blot analysis of CAMKK1 expression in transfected 293T cell line by CAMKK1 monoclonal antibody (M01), clone 1F6.

Lane 1: CAMKK1 transfected lysate(57.31 KDa).
Lane 2: Non-transfected lysate.

Immunoperoxidase of monoclonal antibody to CAMKK1 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 1 ug/ml]



Detection limit for recombinant GST tagged CAMKK1 is approximately 1ng/ml as a capture antibody.



Western blot analysis of CAMKK1 over-expressed 293 cell line, cotransfected with CAMKK1 Validated Chimera RNAi (Cat # AT1380a)

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