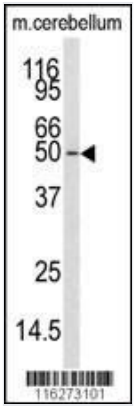
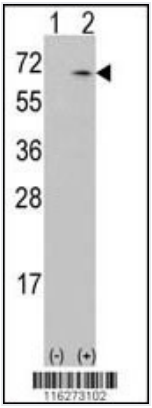
CAMKK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CAMKK1, Polyclonal Antibody
Full Product Name	CAMKK1, NT (Calcium/Calmodulin-dependent Protein Kinase Kinase 1, CaM-kinase Kinase 1, CaM-KK 1, CaMKK 1, CaMKK 1, Calcium/Calmodulin-dependent Protein Kinase Kinase alpha, CaM-kinase Kinase alpha, CaM-KK alpha, CaMKK alpha, CaM-kinase IV Kinase, CAMKKA)
Product Gene Name	anti-CAMKK1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human CAMKK1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer.
Molecular Weight	55.735
OMIM	611411
3D Structure	ModBase 3D Structure for Q8N5S9
Immunogen	Synthetic peptide selected from the N-terminal region of human CAMKK1 (KLH).
Conjugate	FITC
Note	Preservative Free
Product Categories/Family for anti-CAMKK1 antibody	Antibodies; Calmodulin
Applications Tested/Suitable for anti-CAMKK1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CAMKK1 antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CAMKK1 antibody	MBS6466902 is an antibody targeting CAMKK1. Also known as CAMKK1, NT (Calcium/Calmodulin-dependent Protein Kinase Kinase 1, CaM-kinase Kinase 1, CaM-KK 1, CaMKK 1, CaMKK 1, Calcium/Calmodulin-dependent Protein Kinase Kinase alpha, CaM-kinase Kinase alpha, CaM-KK alpha, CaMKK alpha, CaM-kinase IV Kinase, CAMKKA). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CAMKK1 antibody	1. Guest, C.B., PLoS ONE 3(2), E1606 (2008). 2. Rudd, M.F., Genome Res. 16(6), 693-701 (2006). 3. Ishikawa, Y., FEBS Lett. 550(1-3), 57-63 (2003). 4. Matsushita, M., J. Biol. Chem. 274(15), 10086-10093 (1999).
Other Notes	Small volumes of anti-CAMKK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CAMKK1 antibody
Western blot analysis of anti-CAMKK1 Antibody (N-term) in mouse cerebellum tissue lysates (35ug/lane). CAMKK1 (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-CAMKK1 antibody
Western blot analysis of CAMKK1 (arrow) using rabbit polyclonal CAMKK1 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CAMKK1 gene (Lane 2).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAMKK1. It may not necessarily be applicable to this product.

NCBI GI #	14150045
NCBI GeneID	84254
NCBI Accession #	NP_115670
UniProt Primary Accession #	Q8N5S9
UniProt Related Accession #	Q8N5S9
GenBank Nucleotide #	NP_115670.1
NCBI Official Full Name	calcium/calmodulin-dependent protein kinase kinase 1 isoform a
NCBI Official Synonym Full Names	calcium/calmodulin dependent protein kinase kinase 1
NCBI Official Symbol	CAMKK1
NCBI Official Synonym Symbols	CAMKKA
UniProt Protein Name	Calcium/calmodulin-dependent protein kinase kinase 1
UniProt Synonym Protein Names	CaM-kinase IV kinase; Calcium/calmodulin-dependent protein kinase kinase alpha; CaM-KK alpha; CaM-kinase kinase alpha; CaMKK alpha
Protein Family	Calcium/calmodulin-dependent protein kinase
UniProt Gene Name	CAMKK1
UniProt Synonym Gene Names	CAMKKA; CaM-KK 1; CaM-kinase kinase 1; CaMKK 1; CaM-KK alpha; CaM-kinase kinase alpha; CaMKK alpha
UniProt Entry Name	KKCC1_HUMAN
NCBI Protein Information	calcium/calmodulin-dependent protein kinase kinase 1
NCBI Summary for CAMKK1	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. [provided by RefSeq, Jul 2008]

UniProt Comments for CAMKK1	CAMKK1: a calcium/calmodulin-dependent S/T protein kinase of the CAMKK family. Phosphorylates CAMK1, CAMK1D, CAMK1G and CAMK4. Involved in regulating cell apoptosis. Promotes cell survival by phosphorylating AKT1/PKB that inhibits pro-apoptotic BAD/Bcl2-antagonist of cell death. 2 isoforms of the human protein are produced by alternative splicing. The autoinhibitory domain overlaps with the calmodulin binding region and may be involved in intrasteric autoinhibition. Binding of calmodulin may releave intrasteric autoinhibition. May be regulated through phosphorylation by CAMK1 and CAMK4. Appears to be autophosphorylated in a Ca2+/calmodulin-dependent manner. Phosphorylation of Ser-458 is blocked upon binding to Ca2+/calmodulin. Protein type: Protein kinase, Ser/Thr (non-receptor); Protein kinase, Other; Kinase, protein; EC 2.7.11.17; Other group; CAMKK family; Meta subfamily Chromosomal Location of Human Ortholog: 17p13.2 Cellular Component: nucleus; cytosol Molecular Function: calmodulin binding; protein binding; calmodulin-dependent protein kinase activity; ATP binding Biological Process: synaptic transmission; protein amino acid phosphorylation
Research Articles on CAMKK1	**1.** Site-directed mutagenesis analysis revealed that Leu(358) in CaMKKbeta/Ile(322) in CaMKKalpha confer, at least in part, a distinct recognition of AMPK but not of CaMKIalpha.
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