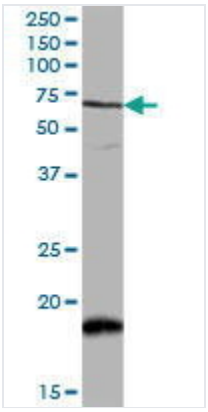
CAMKK2 Antibody – Rabbit Polyclonal

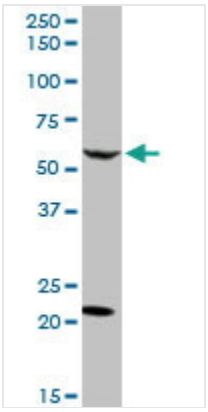
PRODUCT OVERVIEW

Product Name	CAMKK2, Polyclonal Antibody
Full Product Name	CAMKK2 (Calcium/Calmodulin-dependent Protein Kinase Kinase 2, CaM-kinase Kinase 2, CaM-KK 2, CaMKK 2, Calcium/Calmodulin-dependent Prote
Product Gene Name	anti-CAMKK2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CAMKK2. Species Crossreactivity: mouse.
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 stor
OMIM	615002
3D Structure	ModBase 3D Structure for Q96RR4
Immunogen	Full-length human CAMKK2, aa1-541 (NP_705719.2).
Immunogen Sequence	MSSCVSSQPSSNRAAPQDELGGRGSSSSESQKPCEALRGLSSLSIHLGMESFIVVTECEPGCAVDLGLARDRPLEADGQEVPLDTSGSQARPHLSGRKL
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-CAMKK2 antibody	Antibodies; Calmodulin
Applications Tested/Suitable for anti-CAMKK2 antibody	Western Blot (WB)
Application Notes for anti-CAMKK2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CAMKK2 antibody	CAMKK2 belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This protein plays a
Other Notes	Small volumes of anti-CAMKK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece

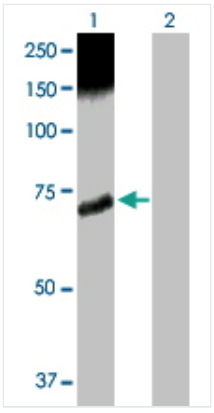
Searchable Terms for CAMKK2 purchase	MBS6372126 is an antibody targeting CAMKK2. Also known as CAMKK2 (Calcium/Calmodulin-dependent Protein Kinase Kinase 2, CaM-kinase Kinas



Western Blot (WB) of anti-CAMKK2 antibody
CAMKK2 rabbit polyclonal antibody. Western Blot analysis of CAMKK2 expression in mouse kidney.



Western Blot (WB) of anti-CAMKK2 antibody
CAMKK2 rabbit polyclonal antibody. Western Blot analysis of CAMKK2 expression in HeLa.



Western Blot (WB) of anti-CAMKK2 antibody
Western Blot analysis of CAMKK2 expression in transfected 293T cell line by CAMKK2 polyclonal antibody. Lane 1: CAMKK2 transfected lysate (59.6kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAMKK2. It may not necessarily be applicable to this product.

NCBI GI #	27437016
NCBI GeneID	10645
NCBI Accession #	NM_153499.2
UniProt Primary Accession #	Q96RR4
UniProt Related Accession #	Q96RR4
GenBank Nucleotide #	NM_153499.2
NCBI Official Full Name	Homo sapiens calcium/calmodulin dependent protein kinase kinase 2 (CAMKK2), transcript variant 2, mRNA
NCBI Official Synonym Full Names	calcium/calmodulin dependent protein kinase kinase 2
NCBI Official Symbol	CAMKK2
NCBI Official Synonym Symbols	CAMKK; CAMKKB

UniProt Protein Name	Calcium/calmodulin-dependent protein kinase kinase 2
UniProt Synonym Protein Names	Calcium/calmodulin-dependent protein kinase kinase beta
Protein Family	Calcium/calmodulin-dependent protein kinase
UniProt Gene Name	CAMKK2
UniProt Synonym Gene Names	CAMKKB; KIAA0787; CaM-KK 2; CaM-kinase kinase 2; CaMKK 2; CaM-KK beta; CaM-kinase kinase beta; CaMKK beta
UniProt Entry Name	KKCC2_HUMAN
NCBI Protein Information	calcium/calmodulin-dependent protein kinase kinase 2
NCBI Summary for CAMKK2	The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. The major isoform of this gene plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade by phosphorylating the downstream kinases CaMK1 and CaMK4. Protein products of this gene also phosphorylate AMP-activated protein kinase (AMPK). This gene has its strongest expression in the brain and influences signalling cascades involved with learning and memory, neuronal differentiation and migration, neurite outgrowth, and synapse formation. Alternative splicing results in multiple transcript variants encoding distinct isoforms. The identified isoforms differ in their ability to undergo autophosphorylation and to phosphorylate downstream kinases. [provided by RefSeq, Jul 2012]
UniProt Comments for CAMKK2	CAMKK2: Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade involved in a number of cellular processes. Isoform 1, isoform 2 and isoform 3 phosphorylate CAMK1 and CAMK4. Isoform 3 phosphorylates CAMK1D. Isoform 4, isoform 5 and isoform 6 lacking part of the calmodulin-binding domain are inactive. Seems to be involved in hippocampal activation of CREB1. Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. 7 isoforms of the human protein are produced by alternative splicing. Protein type: Autophagy; Protein kinase, Other; EC 2.7.11.17; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); Other group; CAMKK family; Meta subfamily Chromosomal Location of Human Ortholog: 12q24.2 Cellular Component: cell projection; cytoplasm; intracellular; nucleus Molecular Function: calmodulin binding; calmodulin-dependent protein kinase activity; protein-tyrosine kinase activity; calcium ion binding; ATP binding Biological Process: peptidyl-tyrosine phosphorylation; positive regulation of transcription, DNA-dependent; protein amino acid autophosphorylation; MAPKKK cascade; calcium-mediated signaling; regulation of protein kinase activity; protein amino acid phosphorylation
Research Articles on CAMKK2	**1.** These data provide evidence that Ca(2+), CaMKK2, AMPK, and VASP form a mechanosensitive signaling cascade at focal adhesions that is critical for stress fiber assembly.
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