CAMK1D Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CAMK1D, Polyclonal Antibody
Full Product Name	CAMK1D (Calcium/Calmodulin-dependent Protein Kinase ID, Calcium/calmodulin-dependent Protein kinase type 1D, CaM-K1, Camk1D, CaMKID, CaM
Product Gene Name	anti-CAMK1D 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 MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CAMK1D.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	42,914 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (12391583..12871735). Location: 10p13
OMIM	607957
3D Structure	ModBase 3D Structure for Q8IU85
Immunogen	Full length human CAMK1D, aa1-385 (NP_705718.1).
Immunogen Sequence	MARENGESSSSWKKQAEDIKKIFEFKETLGTGAFSEVVLAEEKATGKLFAVKCIPKKALKGKESSIENEIAVLRKIKHENIVALEDIYESPNHLYLVMQLVSG
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-CAMK1D antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CAMK1D antibody	Western Blot (WB)
Application Notes for anti-CAMK1D antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-CAMK1D antibody	CAMK1-Like kinase belongs to the CAMK1 subfamily of Serine/Threonine Kinases. CAMK1-Like kinase is a polymorphonuclear leukocyte-specific kina
Other Notes	Small volumes of anti-CAMK1D antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nec
Searchable Terms for CAMK1D purchase	MBS6372067 is an antibody targeting CAMK1D. Also known as CAMK1D (Calcium/Calmodulin-dependent Protein Kinase ID, Calcium/calmodulin-depe

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAMK1D. It may not necessarily be applicable to this product.

NCBI GI #	23943850
NCBI GeneID	57118
NCBI Accession #	NP_705718.1
UniProt Primary Accession #	Q8IU85
UniProt Secondary Accession #	Q9HD31; B0YIY0
UniProt Related Accession #	Q5SQQ7; Q8IU85
GenBank Nucleotide #	NM_153498.2
NCBI Official Full Name	calcium/calmodulin-dependent protein kinase type 1D isoform 2
NCBI Official Synonym Full Names	calcium/calmodulin-dependent protein kinase ID
NCBI Official Symbol	CAMK1D
NCBI Official Synonym Symbols	CKLiK; CaM-K1; CaMKID
UniProt Protein Name	Calcium/calmodulin-dependent protein kinase type 1D
UniProt Synonym Protein Names	CaM kinase I delta; CaM kinase ID; CaM-KI delta; CaMKI delta; CaMKID; CaMKI-like protein kinase; CKLiK
Protein Family	Calcium/calmodulin-dependent protein kinase
UniProt Gene Name	CAMK1D
UniProt Synonym Gene Names	CAMKID; CaM kinase ID; CaM-KI delta; CaMKI delta; CaMKID; CKLiK
UniProt Entry Name	KCC1D_HUMAN
NCBI Protein Information	calcium/calmodulin-dependent protein kinase type 1D; caMKI delta; caM-KI delta; CaM kinase ID; OTTHUMP00000019119; OTTHUMP00000019120; caM kinase I delta; CamKI-like protein kinase
NCBI Summary for CAMK1D	This gene encodes a member of the Ca2+/calmodulin-dependent protein kinase 1 subfamily of serine/threonine kinases. The encoded protein may be involved in the regulation of granulocyte function through the chemokine signal transduction pathway. Alternatively spliced transcript variants encoding different isoforms of this gene have been described. [provided by RefSeq]

UniProt Comments for CAMK1D	CAMK1D: a calcium/calmodulin-dependent S/T protein kinase of the CAMK group. Binding of calmodulin is thought to result in a conformational change and can lead to subsequent activation through phosphorylation by CAMKK1 and CAMKK2. Can be activated by CAMKK1 in a calcium-independent manner. Its Ca(2+)/CaM-dependent activity is enhanced 30-fold in vitro by phosphorylation at Thr180 by CaMKK1. Broadly expressed. Highly and mostly expressed in polymorphonuclear leukocytes (neutrophilic and eosinophilic granulocytes) while little or no expression is observed in monocytes and lymphocytes. May regulate calcium-mediated granulocyte function. May play a role in apoptosis of erythroleukemia cells. In vitro, phosphorylates transcription factor CREM isoform Beta and probably CREB1. Expression increases upon treatment of EC cells with DMSO and retinoic acid. Two isoforms of the human protein are produced by alternative splicing. Protein type: Kinase, protein; Protein kinase, Ser/Thr (non-receptor); Protein kinase, CAMK; EC 2.7.11.17; CAMK group; CAMK1 family Chromosomal Location of Human Ortholog: 10p13 Cellular Component: cytoplasm; nucleus Molecular Function: calmodulin binding; calmodulin-dependent protein kinase activity; ATP binding Biological Process: positive regulation of apoptosis; positive regulation of phagocytosis; activation of CREB transcription factor; regulation of dendrite development; inflammatory response; protein amino acid phosphorylation; negative regulation of apoptosis
Research Articles on CAMK1D	**1.** Observational study and meta-analysis of gene-disease association. (HuGE Navigator)
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