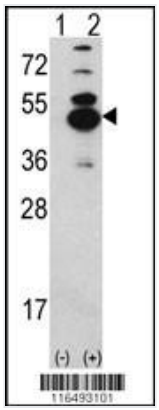
CAMK1D Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CAMK1D, Polyclonal Antibody
Full Product Name	CAMK1D, NT (Calcium/Calmodulin-dependent Protein Kinase Type 1D, CaM kinase ID, CaM Kinase I delta, CaMKI-delta, CaM-KI delta, CaMKI delta, Camk1D, CamKI-like Protein Kinase, CKLiK, CamKI-like Protein Kinase) (Biotin)
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 Biotin.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human CAMK1D.
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. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	40,190 Da
OMIM	607957
3D Structure	ModBase 3D Structure for Q8IU85
Immunogen	Synthetic peptide selected from the N-terminal region of human CAMK1D (KLH).
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-CAMK1D antibody	Antibodies; Calmodulin
Applications Tested/Suitable for anti-CAMK1D antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CAMK1D antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CAMK1D antibody	MBS6466747 is an antibody targeting CAMK1D. Also known as CAMK1D, NT (Calcium/Calmodulin-dependent Protein Kinase Type 1D, CaM kinase ID, CaM Kinase I delta, CaMKI-delta, CaM-KI delta, CaMKI delta, Camk1D, CamKI-like Protein Kinase, CKLiK, CamKI-like Protein Kinase) (Biotin). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CAMK1D antibody	1. Verploegen, S., et al., Blood 96(9):3215-3223 (2000). 2. Ishikawa, Y., et al., FEBS Lett. 550(1-3), 57-63 (2003).
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 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-CAMK1D antibody
Western blot analysis of CAMK1D (arrow) using rabbit polyclonal CAMK1D Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CAMK1D gene (Lane 2).

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
UniProt Primary Accession #	Q8IU85
UniProt Secondary Accession #	Q9HD31; B0YIY0
UniProt Related Accession #	Q8IU85
GenBank Nucleotide #	NM_153498
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; CaM kinase ID; CamKI-like protein kinase; caM kinase I delta; caM-KI delta; caMKI delta

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
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