

CAMK1D Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7204b**Specification**

CAMK1D Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q8IU85](#)**CAMK1D Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 57118**Other Names**

Calcium/calmodulin-dependent protein kinase type 1D, CaM kinase I delta, CaM kinase ID, CaM-KI delta, CaMKI delta, CaMKID, CaMKI-like protein kinase, CKLiK, CAMK1D, CAMKID

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7204b](/products/AP7204b) was selected from the N-term region of human CAMK1D. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CAMK1D Antibody (N-term) Blocking Peptide - Protein Information**Name** CAMK1D**Synonyms** CAMKID**Function**

Calcium/calmodulin-dependent protein kinase that operates in the calcium-triggered CaMKK-CaMK1 signaling cascade and, upon calcium influx, activates CREB-dependent gene transcription, regulates calcium-mediated granulocyte function and respiratory burst and promotes basal dendritic growth of hippocampal neurons. In neutrophil cells, required for cytokine-induced proliferative responses and activation of the respiratory burst. Activates the transcription factor CREB1 in hippocampal neuron nuclei. May play a role in apoptosis of erythroleukemia cells. In vitro, phosphorylates transcription factor CREM isoform Beta.

Cellular Location

Cytoplasm. Nucleus. Note=Predominantly cytoplasmic. Nuclear localization increases upon activation by KCl treatment in hippocampal neurons

Tissue Location

Widely expressed. Highly and mostly expressed in polymorphonuclear leukocytes (neutrophilic and eosinophilic granulocytes) while little or no expression is observed in monocytes and lymphocytes.

CAMK1D Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CAMK1D Antibody (N-term) Blocking Peptide - Images**CAMK1D Antibody (N-term) Blocking Peptide - Background**

CAMK1-like protein kinase belongs to a proposed calcium-triggered signaling cascade. This protein is expressed in polymorphonuclear leukocytes (PMNs) and may be part of the chemokine signal transduction pathway that regulates granulocyte function. CAMK1-like protein kinase may play a role in apoptosis of erythroleukemia cells. It activates MAP kinase MAPK3, and in vitro, phosphorylates transcription factor CREM isoform Beta and probably CREB1.

CAMK1D Antibody (N-term) Blocking Peptide - References

Verploegen, S., et al., Blood 96(9):3215-3223 (2000). Ishikawa, Y., et al., FEBS Lett. 550 (1-3), 57-63 (2003).