

CAMK1D Antibody (clone 3H8) Mouse Monoclonal Antibody Catalog # ALS14492

## Specification

# CAMK1D Antibody (clone 3H8) - Product Information

Application	
Primary Accession	
Reactivity	
Host	
Clonality	
Calculated MW	

WB, IHC <u>08IU85</u> Human Mouse Monoclonal 43kDa KDa

### CAMK1D Antibody (clone 3H8) - Additional Information

Gene ID 57118

# **Other Names** Calcium/calmodulin-dependent protein kinase type 1D, 2.7.11.17, CaM kinase I delta, CaM kinase ID, CaM-KI delta, CaMKI delta, CaMKID, CaMKI-like protein kinase, CKLiK, CAMK1D, CAMKID

Target/Specificity Human CAMK1D

**Reconstitution & Storage** Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

**Precautions** CAMK1D Antibody (clone 3H8) is for research use only and not for use in diagnostic or therapeutic procedures.

### CAMK1D Antibody (clone 3H8) - 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 (clone 3H8) - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- <u>Cell Culture</u>

# CAMK1D Antibody (clone 3H8) - Images



Western blot of CAMK1D expression in transfected 293T cell line by antibody ALS14492.



Anti-CAMK1D antibody IHC of human skeletal muscle.

# CAMK1D Antibody (clone 3H8) - Background

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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.

## CAMK1D Antibody (clone 3H8) - References

Verploegen S., et al.Blood 96:3215-3223(2000). Ishikawa Y., et al.FEBS Lett. 550:57-63(2003). Deloukas P., et al.Nature 429:375-381(2004). Mural R.J., et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases. Verploegen S., et al.Blood 106:1076-1083(2005).