SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CAMK1D antibody

Catalog Number: SL6225R

FOR RESEARCH USE ONLY

[DATASHEET]

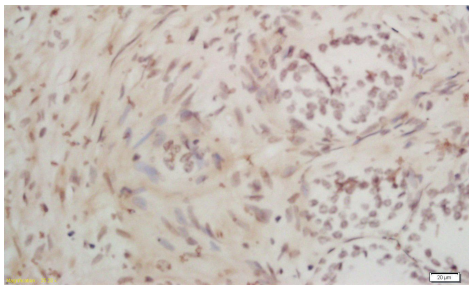
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CAMK1D
Immunogen:	KLH conjugated synthetic peptide derived from human CAMK1D: 33-130/385
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit)
Predicted MW.:	43kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	CAMK1D is a member of the Ca2+/calmodulin-dependent protein kinase 1 subfamily of serine/threonine kinases. It may be involved in the regulation of granulocyte function through the chemokine signal transduction pathway and may play a role in apoptosis of erythroleukemia cells. **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 basal dendritic growth of hippocampal neurons. In neutrophil cells, required for cytokine-induced proliferative responses and activation of the respiratory burst. Phosphorylates the transcription activator CREB1 on 'Ser-133' in hippocampal neuron nuclei. May play a role in apoptosis of erythroleukemia cells. In vitro, phosphorylates

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	transcription factor CREM isoform Beta. **Subcellular Location:** Cytoplasm. Nucleus. Predominantly cytoplasmic (Probable). Also nuclear upon activation. **Tissue Specificity:** Broadly expressed. Highly and mostly expressed in polymorphonuclear leukocytes (neutrophilic and eosinophilic granulocytes) while little or no expression is observed in monocytes and lymphocytes. **Similarity:** Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. Contains 1 protein kinase domain. **Database links:** **Entrez Gene:** 57118 Human **Entrez Gene:** 227541 Mouse **Entrez Gene:** 307124 Rat Omim: 607957 Human **SwissProt:** Q8IU85 Human **SwissProt:** Q8BW96 Mouse **Unigene:** 659517 Human **Unigene:** 191949 Mouse **Unigene:** 200021 Rat

[VALIDATION IMAGES]



Tissue/cell: human prostate carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-CAMK1D Polyclonal Antibody, Unconjugated(SL6225R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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