

Antibody

产品货号: APRab04357



#### 产品概述 (Summary)

产品名称 (Production Name) CaMKIV (phospho Thr200) Rabbit Polyclonal Antibody

描述 (Description) Rabbit polyclonal Antibody

宿主 (Host) Rabbit

应用 (Application)WB,IHC,ICC/IF,ELISA种属反应性 (Reactivity)Human,Mouse,Rat

### 产品性能 (Performance)

偶联物 (Conjugation) Unconjugated 修饰 (Modification) Phosphorylated

同种型 (Isotype) IgG

克隆 (Clonality) Polyclonal 形式 (Form) Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% 储存溶液 (Buffer)

New type preservative N.

**纯化方式 (Purification)** Affinity purification

## 免疫原信息 (Immunogen)

基因名 (Gene Name) CAMK4

CAMK4; CAMK; CAMK-GR; CAMKIV; Calcium/calmodulin-dependent protein 別名 (Alternative Names)

kinase type IV; CaMK IV; CaM kinase-GR

基因 ID (Gene ID) 814.0

Q16566.The antiserum was produced against synthesized peptide derived

蛋白ID (SwissProt ID) from human CaMK4 around the phosphorylation site of Thr196/200. AA

range:166-215

# 产品应用 (Application)

稀释比 (Dilution Ratio) WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:20000-1:40000

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蛋白分子量 (Molecular Weight) 60kDa

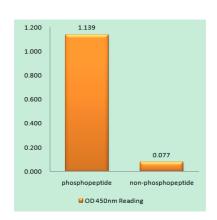
## 研究背景 (Background)

The product of this gene belongs to the serine/threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This enzyme is a multifunctional serine/threonine protein kinase with limited tissue distribution, that has been implicated in transcriptional regulation in lymphocytes, neurons and male germ cells. [provided by RefSeq, Jul 2008], catalytic activity: ATP + a protein = ADP + a phosphoprotein, enzyme regulation: Activated by Ca(2+)/calmodulin. Binding of calmodulin may releave intrasteric autoinhibition. Must be phosphorylated to be maximally active. Phosphorylated by CAMKK1 or CAMKK2. Autophosphorylation of the N-terminus is required for full activation. In part, activity is independent on Ca(2+)/calmodulin and autophosphorylation of Ser-336 allows to switch to a Ca(2+)/calmodulinindependent state (By similarity). Probably inactivated by serine/threonine protein phosphatase 2A., function: Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade. May be involved in transcriptional regulation. May be involved in regulation of microtubule dynamics. In vitro, phosphorylates CREB1, CREBBP, PRM2, MEF2A, MEF2D and STMN1/OP18. May be involved in spermatogenesis. May play a role in the consolidation/retention of hippocampus-dependent long-term memory, PTM: Autophosphorylated and phosphorylated by CAMKK1 and CAMKK2 (By similarity). Dephosphorylated by serine/threonine protein phosphatase 2A, probably on Thr-200, similarity: Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily, similarity: Contains 1 protein kinase domain, subcellular location: Substantial localization in certain neuronal nuclei. In spermatids associated with chromatin and nuclear matrix., subunit: Monomer (By similarity). Interacts with serine/threonine protein phosphatase 2A catalytic subunit, PPP2CA or PPP2CB. The interaction with PP2CA or PP2CB is mutually exclusive with binding to Ca(2+)/calmodulin.,tissue specificity:Expressed in epithelial ovarian cancer tissue.,

#### 研究领域(Research Area)

Calcium;Long-term potentiation;Neurotrophin;

#### 图片 (Image Data)



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-

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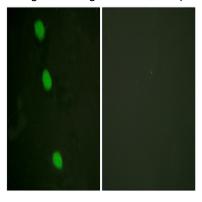
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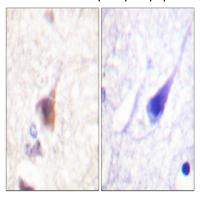
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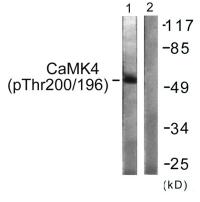
Phosphopeptide (Phospho-right), using CaMK4 (Phospho-Thr196/200) Antibody



Immunofluorescence analysis of HeLa cells, using CaMK4 (Phospho-Thr196/200) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using CaMK4 (Phospho-Thr196/200) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from K562 cells treated with H2O2 100uM 30 ', using CaMK4 (Phospho-Thr196/200) Antibody. The lane on the right is blocked with the phospho peptide.

# 注意事项 (Note)

For research use only.

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