

产品名称: CaMKII $\beta$ / $\gamma$ / $\delta$ (Phospho Thr287)(4H2)Mouse  
Monoclonal Antibody  
产品货号: AMM05676



## 产品概述 (Summary)

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| 产品名称 (Production Name) | CaMKII $\beta$ / $\gamma$ / $\delta$ (Phospho Thr287)(4H2)Mouse Monoclonal Antibody |
| 描述 (Description)       | Mouse Monoclonal Antibody                                                           |
| 宿主 (Host)              | Mouse                                                                               |
| 应用 (Application)       | IHC                                                                                 |
| 种属反应性 (Reactivity)     | Human,Rat,Mouse                                                                     |

## 产品性能 (Performance)

|                     |                                                                                          |
|---------------------|------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                             |
| 修饰 (Modification)   | Phospho Antibody                                                                         |
| 同种型 (Isotype)       | IgG                                                                                      |
| 克隆 (Clonality)      | Monoclonal                                                                               |
| 形式 (Form)           | Liquid                                                                                   |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.       |
| 纯化方式 (Purification) | Affinity purification                                                                    |

## 免疫原信息 (Immunogen)

|                        |                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | CAMK2B; CAM2; CAMK2; CAMKB; Calcium/calmodulin-dependent protein kinase type II subunit beta; CaM kinase II subunit beta; CaMK-II subunit beta; |
| 别名 (Alternative Names) | CAMK2G; CAMK; CAMK-II; CAMKG; Calcium/calmodulin-dependent protein kinase type II subunit gamma;                                                |
| 基因 ID (Gene ID)        | 816/817/818                                                                                                                                     |
| 蛋白 ID (SwissProt ID)   | Q13554/Q13555/Q13557.Synthetic Peptide of CaMKII $\beta$ / $\gamma$ / $\delta$ (Phospho Thr287)                                                 |

## 产品应用 (Application)

|                      |               |
|----------------------|---------------|
| 稀释比 (Dilution Ratio) | IHC 1:100-200 |
|----------------------|---------------|

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蛋白分子量 (Molecular Weight) 50kD

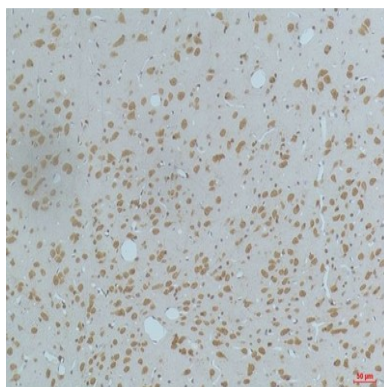
## 研究背景 (Background)

The product of this gene belongs to the serine/threonine protein kinase family and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a beta chain. It is possible that distinct isoforms of this chain have different cellular localizations and interact differently with calmodulin. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014], alternative products: The variable region of the CAMK2B protein is encoded by at least 7 exons (V1 to V7). Alternative splicing within this region gives rise to CAMK2B isoforms, catalytic activity: ATP + a protein = ADP + a phosphoprotein., enzyme regulation: Autophosphorylation of CAMK2 plays an important role in the regulation of the kinase activity., function: CaM-kinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. Member of the NMDAR signaling complex in excitatory synapses, it may regulate NMDAR-dependent potentiation of the AMPAR and synaptic plasticity., similarity: Belongs to the protein kinase superfamily., similarity: Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily., similarity: Contains 1 protein kinase domain., subunit: CAMK2 is composed of four different chains: alpha, beta, gamma, and delta. The different isoforms assemble into homo- or heteromultimeric holoenzymes composed of 8 to 12 subunits. Interacts with SYNGAP1 and CAMK2N2 (By similarity). Interacts with MPDZ., tissue specificity: Widely expressed. Expressed in adult and fetal brain. Expression is slightly lower in fetal brain.,

## 研究领域 (Research Area)

ErbB\_HER; Calcium; Oocyte meiosis; WNT; WNT-T CELL Long-term potentiation; Neurotrophin; Olfactory transduction; GnRH; Melanogenesis; Glioma;

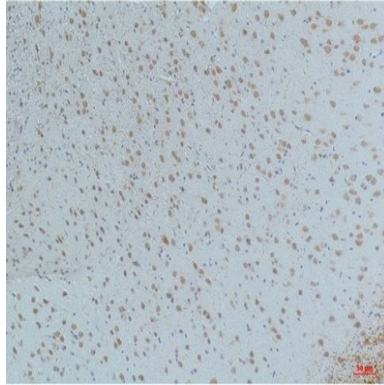
## 图片 (Image Data)



Immunohistochemical analysis of paraffin-embedded Rat Brain Tissue using CaMKII $\beta$ / $\gamma$ / $\delta$  (Phospho Thr287) (mAb diluted at 1:200).

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Immunohistochemical analysis of paraffin-embedded Mouse Brain Tissue using CaMKII $\beta$ / $\gamma$ / $\delta$  (Phospho Thr287) Mouse mAb diluted at 1:200.

#### 注意事项 (Note)

For research use only .