

## CaMK4 monoclonal antibody

Catalog: MB66521

Host: Mouse

Reactivity: Human

**BackGround:**

CaMKIV is an important member of calcium/calmodulin-activated kinases. CaMKIV signaling has been related to long-term neural potentiation and memory, as well as T-cell receptor signaling. CaMKIV has catalytic and regulatory domains. The Ca<sup>2+</sup>/calmodulin-dependent CaMKK phosphorylates CaMKIV, releasing the autoinhibitory effect and thus activating the kinase. The activated CaMKIV further auto-phosphorylates itself at Thr196 (or Thr200 in human) to render the kinase constitutively active. The threonine phosphorylation state of CaMKIV can be downregulated by PP2A dephosphorylation.

**Product:**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

**Molecular Weight:**

~ 55 kDa

**Swiss-Prot:**

Q16566

**Purification&Purity:**

The antibody was purified by immunogen affinity chromatography.

**Applications:**

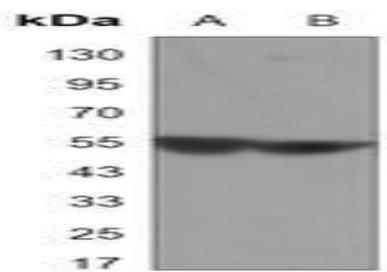
WB (1/500 - 1/1000)

**Storage&Stability:**

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

**Specificity:**

Recognizes endogenous levels of CaMK4 protein.

**DATA:**

Western blot analysis of CaMK4 expression in Romas (A), Jurkat (B) whole cell lysates.

**Note:**

For research use only, not for use in diagnostic procedure.

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