

## CaMKII Recombinant Rabbit mAb

Catalog: BS45544

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

The product of this gene belongs to the serine/threonine protein kinases family, and to the Ca(2+)/calmodulin-dependent protein kinases subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. This calcium calmodulin-dependent protein kinase is composed of four different chains: alpha, beta, gamma, and delta. The alpha chain encoded by this gene is required for hippocampal long-term potentiation (LTP) and spatial learning. In addition to its calcium-calmodulin (CaM)-dependent activity, this protein can undergo autophosphorylation, resulting in CaM-independent activity. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Nov 2008]

### Product:

Store at -20 °C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

### Molecular Weight:

54 kDa

### Swiss-Prot:

Q9UQM7

### Purification&Purity:

### Affinity Purification

### Applications:

WB: 1:1000-1:2000  
IHC: 1:200-1:500  
ICC/IF: 1:20-1:100  
FC: 1:20-1:100

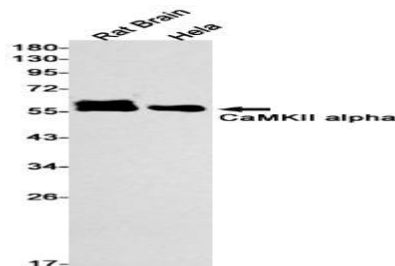
### Storage&Stability:

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

### Isotype:

IgG

### DATA:



Western blot detection of CaMKII alpha in Rat Brain, HeLa cell lysates using CaMKII alpha antibody (1:1000 diluted).

### Note:

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

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