

## CAMK2A

**Reactivity:** Human

**Tested applications:** WB IHC

**Recommended Dilution:** WB 1:200 - 1:1000 IHC 1:20 - 1:200

**Calculated MW:** 54kDa

**Observed MW:** Refer to Figures

**Immunogen:**

A synthetic peptide of human CAMK2A

**Storage Buffer:**

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

CAMKA; KIAA0968

**Catalog #:** A0585

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 815

**Isotype:** IgG

**Swiss Prot:** Q9UQM7

**Purity:** Affinity purification

For research use only.

**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]

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