

CaMKIIα/β/δ rabbit pAb

Cat No.: ES7641

For research use only

Overview

Product Name CaMKIIα/ β /δ rabbit pAb

Host species Rabbit

Applications IHC;IF;WB;ELISA **Species Cross-Reactivity** Human;Mouse;Rat

Recommended dilutions WB 1:500-2000 Immunohistochemistry: 1/100 -

1/300. ELISA: 1/5000. Not yet tested in other

applications.

Immunogen The antiserum was produced against synthesized

peptide derived from human CaMK2 alpha/beta/delta. AA range:271-320

Specificity CaMKII $\alpha/\beta/\delta$ Polyclonal Antibody detects

endogenous levels of CaMKII $\alpha/\beta/\delta$ protein.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name Calcium/calmodulin-dependent protein kinase type

II subunit alpha

Gene Name CAMK2A

Cell junction, synapse. Cell junction, synapse,

postsynaptic density . Cell projection, dendritic spine . Cell projection, dendrite . Postsynaptic lipid

rafts..

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal Concentration 1 mg/ml

Observed band

Human Gene ID 815/816/817

Human Swiss-Prot Number Q9UQM7/Q13554/Q13557
Alternative Names Q9UQM7/Q13554/Q13557

Calcium/calmodulin-dependent protein kinase type

II subunit alpha; CaM kinase II subunit alpha;



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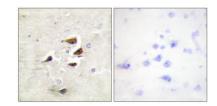
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Background

CaMK-II subunit alpha; CAMK2B; CAM2; CAMK2; CAMKB; Calcium/calmodulin-dependent protein kinase type II subunit beta; Ca 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],

Immunohistochemistry analysis of paraffin-embedded human brain tissue, using CaMK2 alpha/beta/delta Antibody. The picture on the right is blocked with the synthesized peptide.



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