

Anti-Phospho-CaMK2 (Thr286) Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Actual: 54 kDa.
Purification:	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.

Applications

Application:	WB,ELISA
Recommended	WB: 1:500-2000; ELISA: 1:5000-20000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthesized phosphopeptide: human CaMK2 around the phosphorylation site of Thr286
Antigen Species:	human
Uniprot ID:	Q9UQM7
Synonyms:	MGC155201;CaM kinase II beta subunit;Calcium/calmodulin-dependent protein kinase(CaM kinase) II alpha;CaMK II delta subunit;KIAA0968;Calcium/Calmodulin Dependent Protein Kinase II G;Calcium calmodulin dependent protein kinase CaM kinase II alpha;CaM kinase II delta chain;CaM kinase II beta chain;PK2CDD;Calcium/calmodulin dependent protein kinase II alpha;CaMKII (p-T286);Calcium/calmodulin-dependent protein kinase type II subunit alpha;CaM kinase II alpha chain;CaMK-II subunit alpha;CAM2;KCC2A;CaM kinase II delta subunit;CAMKB;R74975;zgc:112538;p-CaMKII (T286);mKIAA0968;CAMK2B;CaM kinase II subunit alpha;CaMKII alpha;Calcium/calmodulin-dependent protein kinase type IIA;Calcium calmodulin dependent protein kinase II alpha-B subunit;MGC123320;zgc:123320;MGC139375;CaMK II beta subunit;CaMKII;CaMK II alpha subunit;p-CaMKII (Thr286);CAMK2D;PKCCD;Calcium calmodulin dependent protein kinase II;CAMK2A;CaMKII (p-Thr286);CAMKA;EC 2.7.11.17;alpha CaMKII;CaM kinase II alpha subunit

Research Background

calcium/calmodulin dependent protein kinase II alpha(CAMK2A) Homo sapiens 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]

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