

CAMKII ALPHA/DELTA RABBIT PAB

Cat.#: N225433

Product Name: Anti-CaMKII alpha/delta Rabbit pAb

Synonyms: CAMK2A; CAMKA; KIAA0968; Calcium/calmodulin-dependent protein kinase type II subunit alpha; CaM kinase II subunit alpha; CaMK-II subunit alpha; CAMK2D; CAMKD; Calcium/calmodulin-dependent protein kinase type II subunit delta; CaM kinase II

UNIPROT ID: Q9UQM7/Q13557

Background: The product of CAMK2A (calcium/calmodulin dependent protein kinase II alpha) 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 CAMK2A.

Immunogen: The antiserum was produced against synthesized peptide derived from human CaMK2 alpha/delta. AA range:256-305

Applications: WB,IHC-F,IHC-P,ICC/IF,ELISA

Recommended Dilutions: WB: 1/500-1/1000 IHC: 1/50-1/100 IF: 1/50-1/200 ELISA: 1/10000

Host Species: Rabbit

Clonality: Rabbit Polyclonal

Clone ID: -

MW: Calculated MW: 54 kDa; Observed MW: 54 kDa

Isotype: IgG

Purification: Affinity Chromatography

Species Reactivity: Human,Mouse,Rat

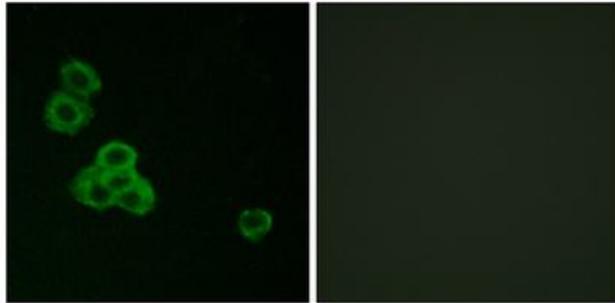
Conjugation: Unconjugated

Modification: Unmodified

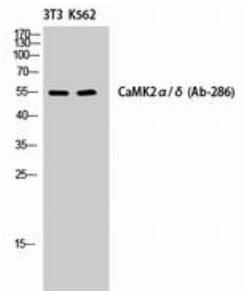
Constituents: PBS (without Mg²⁺ and Ca²⁺), pH 7.3 containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

Research Areas: Neuroscience

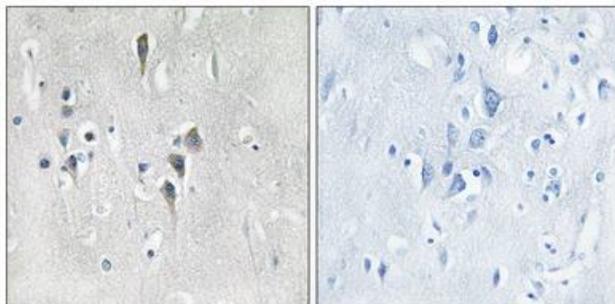
Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



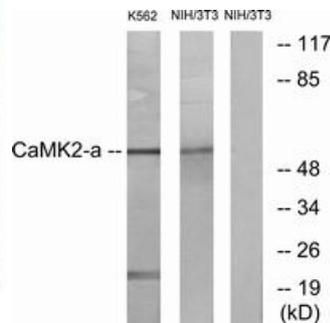
Immunofluorescence analysis of CaMKII alpha/delta in MCF-7 using CaMKII alpha/delta antibody. The picture on the right is blocked using the synthesized peptide.



Western blot analysis of CaMKII alpha/delta in NIH3T3/K562 lysates using CaMKII alpha/delta antibody.



Immunohistochemistry analysis of paraffin-embedded Human brain tissue using CaMKII alpha/delta antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval. Sample with blocking peptide on the right.



Western blot analysis of CaMKII alpha/delta in NIH/3T3 and K562 lysates using CaMKII alpha/delta antibody. The lane on the right is blocked with the synthesized peptide.