Product Name: CaMΚΙΙβ/γ/δ Rabbit Polyclonal Antibody EnkiLife Catalog #: APRab07889

Summary

Production Name CaMKIIβ/γ/δ Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application WB,IHC,ELISA

Reactivity Human, Mouse, Rat, Pig

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Polyclonal Form Liquid

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

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name CAMK2B

CAMK2B; CAMK2; CAMKB; Calcium/calmodulin-dependent protein kinase type

II subunit beta; CaM kinase II subunit beta; CaMK-II subunit beta; CAMK2G; CAMK;

Alternative Names

CAMK-II; CAMKG; Calcium/calmodulin-dependent protein kinase type II subunit

gamma;

Gene ID 816/818/817

Q13554/Q13555/Q13557.The antiserum was produced against synthesized peptide SwissProt ID

derived from human CaMK2-beta/gamma/delta. AA range:253-302

Application

Dilution Ratio WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000..

Molecular Weight 50+65kD

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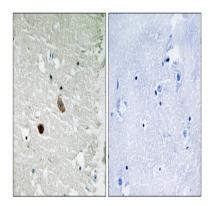
Background

The product of this gene belongs to the serine/threonine protein kinase family and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a beta chain. It is possible that distinct isoforms of this chain have different cellular localizations and interact differently with calmodulin. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014], alternative products:The variable region of the CAMK2B protein is encoded by at least 7 exons (V1 to V7). Alternative splicing within this region gives rise to CAMK2B isoforms, catalytic activity: ATP + a protein = ADP + a phosphoprotein, enzyme regulation: Autophosphorylation of CAMK2 plays an important role in the regulation of the kinase activity., function: CaMkinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. Member of the NMDAR signaling complex in excitatory synapses, it may regulate NMDARdependent potentiation of the AMPAR and synaptic plasticity.,similarity:Belongs to the protein kinase superfamily, similarity: Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily, similarity: Contains 1 protein kinase domain, subunit: CAMK2 is composed of four different chains: alpha, beta, gamma, and delta. The different isoforms assemble into homo- or heteromultimeric holoenzymes composed of 8 to 12 subunits. Interacts with SYNGAP1 and CAMK2N2 (By similarity). Interacts with MPDZ, tissue specificity: Widely expressed. Expressed in adult and fetal brain. Expression is slightly lower in fetal brain.,

Research Area

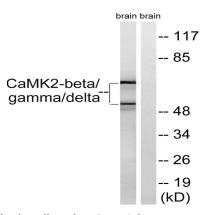
ErbB_HER;Calcium;Oocyte meiosis;WNT;WNT-T CELLLong-term potentiation;Neurotrophin;Olfactory transduction;GnRH;Melanogenesis;Glioma;

Image Data



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

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Western blot analysis of lysates from rat brain cells, using CaMK2-beta/gamma/delta Antibody. The lane on the right is blocked with the synthesized peptide.

Note

For research use only.