
CaMK2a Peptide

Subcategory: Synthetic Peptide, Blocking Peptide

Cat. No.: 300117

Unit: 0.1 mg

Description:

CaMK2a (CAMKII alpha, CaM Kinase 2 alpha) is a prominent Ser/Thr kinase in the central nervous system that functions in long-term potentiation and neurotransmitter release. A member of the NMDAR signaling complex at the excitatory synapse, it regulates NMDAR-dependent potentiation of the AMPAR and synaptic plasticity. CAMK2a is composed of alpha, beta, gamma, and delta chains that assemble into homo- or heteromultimeric holoenzymes composed of 8 to 12 subunits. CaMK2a interacts with BAALC, MPDZ, SYN1, CAMK2N2 and SYNGAP1.

Format: Each vial contains 0.1 ml peptide in deionized water for a final concentration of 1 mg/ml. Use at 5.6 ug/ml for a 100X excess over antibody for maximum blocking effect.

Alternate Names: CaMK2a; Calcium/calmodulin-dependent protein kinase type II alpha chain; CaM-kinase II alpha chain; CaM kinase II subunit alpha; CaMK-II subunit alpha

Accession No.: Q9UQM7

MW: 11400 g/mol (MAP8 peptide)

Sequence: The synthetic peptide used to raise the antibody Cat. No. 250569 is selected from a sequence within the C-term region of human CaMK2a. For blocking experiments, a 10 to 100 fold molar excess to antibody is recommended.

Purity: Purity > 80% by HPLC

Solubility: Distilled water for a solution up to 2 mg/ml, otherwise we recommend using acetonitrile.

Storage: Store at -20°C. The product is hygroscopic and must be protected from light. Product is guaranteed one year from the date of shipment. Following reconstitution, store at -20°C.

For research use only, not for diagnostic or therapeutic procedures.