

Anti-CAMK2

Rabbit Polyclonal Antibody

Catalog # **C11-63R**

Lot # B3216-25

Cited Applications

ELISA, WB

Ideal working dilutions for each application should be empirically determined by the investigator.

Specificity

Recognizes the human CaM Kinase II Protein

Cross Reactivity

Human, Mouse, Rat, Dog and Orangutan

Host/Isotype/Clone#

Rabbit, IgG

Immunogen

The antibody was produced against synthesized peptide corresponding to amino acids 6-23 of Human CaM Kinase II protein.

Formulation

0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 + 0.01% (w/v) Sodium Azide

Stability

1yr at -20°C from date of shipment

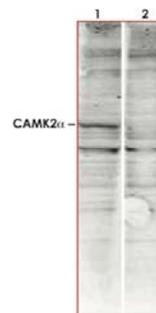
Scientific Background

CaM Kinase II (also known as CAMK2 and calcium/calmodulin-dependent protein kinase type II alpha chain) is a prominent kinase in the central nervous system that may function in the long-term potentiation of neurotransmitter release. CaM Kinase II autophosphorylates itself at Thr-286 which allows the kinase to switch from a calmodulin-dependent to a calmodulin-independent state. CaM Kinase II 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. This kinase is expressed in brain tissue. Alternative splicing occurs for this gene product.

References:

1. Lin, C.R., et al.: Molecular cloning of a brain-specific calcium/calmodulin-dependent protein kinase. Proc. Natl. Acad. Sci. U.S.A. 1987; 84 (16): 5962-5966.
2. Balleit, R.F., et al.: Conserved and variable regions in the subunits of brain type II Ca²⁺/calmodulin-dependent protein kinase. Neuron 1. 1988; (1): 63-72.
3. Hanley, R.M., et al.: Functional analysis of a complementary DNA for the 50-kilodalton subunit of calmodulin kinase II. Science. 1987; 237 (4812): 293-297.

Sample Data



Western blot using Anti-CAMK2 (1:1,500) shows detection of a band ~54 kDa corresponding to human alpha CaM Kinase II. Specific reactivity with this band is blocked when the antibody is pre-incubated with the immunizing peptide (lane 2).

Anti-CAMK2

Mouse Monoclonal Antibody

Catalog #	C11-63R
Lot #	B3216-25
Purification	Affinity chromatography
Stability	1yr at -20°C from date of shipment
Storage & Shipping	Store product at -20°C. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on ice packs.

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