

Mouse CamKII, phosphorylated Monoclonal Antibody

Anti-phospho CaMKII Monoclonal Antibody

CATALOG # AAA47742	HOST Mouse	APPLICATIONS Immunofluorescence, Immunoblot, Western Blot
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PRODUCT SYNONYMS

CamKII; phosphorylated; Monoclonal Antibody; Anti-phospho CaMKII Monoclonal Antibody; anti-CamKII; phosphorylated antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Specificity	CamKII, phosphorylated [Mouse monoclonal antibody recognizes phosphorylated CaMKII.] This antibody recognizes the phosphorylated form of mouse and rat CaMKII. It does not react with non-phosphorylated CaMKII.
Form/Format	100ug in PBS, pH 7.4, purified by Protein G affinity chromatography
Applicable Applications for anti-CamKII, phosphorylated antibody	IF (Immunofluorescence), IB (Immunoblot)
Antigen	Synthetic peptide based on sequence from rat/mouse CaMKII alpha (aa 281-294), thiophosphorylated at residue Thr286 conjugated to a protein carrier.
Preservatives	0.09% sodium azide
Other Additives	50% glycerol
Dilutions Instructions	Dilute in PBS or medium which is identical to that used in the assay system.
Preparation and Storage	This antibody is stable for at least one (1) year at -20 degree C. Avoid repeated freezing and thawing.

ADDITIONAL INFORMATION

Related Product Information for anti-CamKII, phosphorylated antibody	CaMKII, a member of the calcium / calmodulin-activated protein kinas family, functions in neural synapatic stimulation and T-cell receptor signaling. CaMKII is expressed in many tissues, but it is specifically found in the neurons of the forebrain, and its mRNA is found within the dendrites and the soma of the neuron. CaMKII in neurons consists of two subunits of 52 (alpha genes) and 60 kDa (beta genes). CaMKII has catalytic and regulatory domains as well as an ATP-binding domain and a consensus phosphorylation site. Binding of calcium / calmodulin to its regulatory domain releases its auto-inhibitory effect and activates the kinase. This kinase activation results in autophosphorylation at threonine 286. Autophosphorylation confers enhanced affinity of CaMKII for NMDA receptors in postsynaptic densities.
Product Categories/Family for anti-CamKII, phosphorylated antibody	Neuroscience and Signal Transduction Antibodies

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/camkii-phosphorylated-antibody-immunofluorescence-immunoblot-elisa/47742>