


Product datasheet

Anti-CaMKII alpha antibody ab50202

★★★★☆ 2 Abreviews 3 References

Overview

<b>Product name</b>	Anti-CaMKII alpha antibody
<b>Description</b>	Rabbit polyclonal to CaMKII alpha
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Chicken, Human <b>Predicted to work with:</b> Cow, Zebrafish 
<b>Immunogen</b>	Synthetic peptide: KWQVMHFHRSGAPSVLPH conjugated to KLH, corresponding to C terminal amino acids 461-478 of Rat CaMKII alpha <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	Synaptosomal fraction of rat brain

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: 0.0268% PBS
<b>Purity</b>	IgG fraction
<b>Purification notes</b>	Whole antiserum is fractionated and then further purified by ion-exchange chromatography to provide the IgG fraction of antiserum that is essentially free of other rabbit serum proteins.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab50202** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆	1/5000. Predicted molecular weight: 54 kDa. Staining of CaM Kinase IIa in immunoblotting is specifically inhibited with CaM Kinase IIa immunizing peptide.
IP		Use at an assay dependent dilution. 5 µg using 10 µg of a synaptosomal fraction of rat brain.

## Target

<b>Function</b>	CaM-kinase 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 NMDAR-dependent potentiation of the AMPAR and synaptic plasticity.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. Contains 1 protein kinase domain.
<b>Cellular localization</b>	Cell junction > synapse > presynaptic cell membrane. Cell junction > synapse. Postsynaptic lipid rafts.

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