

Datasheet: HCA122

Description:	HUMAN ANTI CaMK II INHIBITOR BETA
Specificity:	CaMK II INHIBITOR BETA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD06016
Isotype:	HuCAL Fab bivalent
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			1/50

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Mouse
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Bovine, Rat N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
Product Form	A bivalent human recombinant Fab selected from the HuCAL phage display library, expressed in <i>E. coli</i> . This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with a myc-tag (EQKLISEEDL) and a his-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied lyophilized.
Reconstitution	Reconstitute with 1.0 ml distilled water.
Preparation	Metal chelate affinity chromatography.
Buffer Solution	Phosphate buffered saline.

Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	Ig concentration 0.1 mg/ml after reconstitution.
Immunogen	Peptide with the sequence EDKMGRFGADPEGSDLS, corresponding to amino acids 9-25 of mouse calcium/calmodulin-dependent protein kinase II inhibitor 2 (CaMK II N beta)
External Database Links	<p>UniProt:</p> <p>Q78WH7 Related reagents</p> <p>A5D7T0 Related reagents</p> <p>Q9Z2N6 Related reagents</p> <p>Entrez Gene:</p> <p>73047 Camk2n2 Related reagents</p> <p>614606 CAMK2N2 Related reagents</p> <p>59314 Camk2n2 Related reagents</p>
RRID	AB_10672763
Specificity	<p>Human anti CaMK II Inhibitor beta antibody, clone AbD06016 detects mouse calcium/calmodulin-dependent protein kinase II Inhibitor beta (CaMK2N2), also known as calcium/calmodulin-dependent protein kinase II inhibitor 2, a potent inhibitor of CaM kinase II (CAMK2). CaMK II N beta interacts with both CAMK2 alpha and beta.</p> <p>The peptide sequence used to generate this antibody is identical to rat, bovine (<i>Bos taurus</i>) and short tailed opossum (<i>Monodelphis sp.</i>) CaMK II N beta.</p>
Histology Positive Control Tissue	Mouse brain (hippocampus).
References	1. Radwanska. K. <i>et al.</i> (2010) Differential regulation of CaMKII inhibitor beta protein expression after exposure to a novel context and during contextual fear memory formation. Genes Brain Behav. 9: 648-57.
Storage	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at -20°C.</p> <p>Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.</p>
Guarantee	12 months from date of despatch.
Acknowledgements	<p>This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See bio-rad.com/en-us/trademarks for details.</p> <p>His-tag is a trademark of EMD Biosciences.</p>

Health And Safety Information	Material Safety Datasheet documentation #20486 available at: 20486: https://www.bio-rad-antibodies.com/uploads/MSDS/20486.pdf
Licensed Use	For <i>in vitro</i> . research purposes only, unless otherwise specified in writing by Bio-Rad.
Regulatory	For research purposes only.
Technical Advice	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual .

Related Products

Recommended Secondary Antibodies

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)

Mouse Anti Human C-MYC (MCA2200...) [Alk. Phos.](#), [Biotin](#), [HRP](#)

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [Alk. Phos.](#), [Biotin](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M406236:220921'

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