

MOUSE ANTI-CALCIUM-CALMODULIN MONOCLONAL ANTIBODY

CATALOG NUMBER:	MAB1040	QUANTITY:	100 µL
LOT NUMBER:			
ALTERNATE NAMES:	CaM		
CLONE NAME:	ACC-1	HOST/ISOTYPE:	Ms IgG2b
SPECIFICITY:	Recognizes calcium-activated calmodulin and calcium-activated calmodulin phosphodiesterase complex. The epitope recognized by the antibody is absolutely calcium dependent; the antibody does not recognize calcium- free calmodulin or phosphodiesterase alone (Hansen, 1982). This antibody will recognize both the 61 and 63 kDa isoforms (CaM-PDE 1A and 1B, respectively) of active calmodulin-dependent phosphodiesterase in bovine and rat brain (Hansen, 1988).		
APPLICATIONS:	Immunoprecipitation EIA Immunohistochemistry: 1:200 on paraffin-embedded or frozen tissue sections. NOTE: all procedures must be performed in calcium-containing buffers without chelating agents (EGTA or EDTA). Optimal working dilutions must be determined by end user.		
SPECIES REACTIVITY:	Reacts with Bovine, Human and Rat. Reactivity with other species has not been determined.		
IMMUNOGEN:	Bovine brain calmodulin (CAM) complexed with bovine heart phosphodiesterase (PDE), calcineirin (CN), and myosin light chain kinase (MLCK).		
PRESENTATION:	Ascites fluid containing no preservatives.		
STORAGE/HANDLING:	Maintain at -20°C in undiluted aliquots for up to 12 months from date of receipt. Avoid repeated freeze/thaw cycles.		
REFERENCES:	<p>Tuccari, G. <i>et al.</i> (1993). Immunocytochemical demonstration of calmodulin and its activated forms in normal and carcinomatous human mammary tissue. <i>Eur. J. Histochem.</i> 37(1):59-64.</p> <p>Hansen, R.S. <i>et al.</i> (1988). Purification of calmodulin-stimulated cyclic nucleotide phosphodiesterase by monoclonal antibody affinity chromatography. <i>Methods Enzymol</i> 159:543-557.</p> <p>Hansen, R.S. and Beavo, J.A. (1986). Differential recognition of calmodulin-enzyme complexes by a conformation-specific anti-calmodulin monoclonal antibody. <i>J. Biol. Chem.</i> 261(31):14636-14645.</p> <p>Hansen, R.S. and Beavo, J.A. (1982). Purification of two calcium/calmodulin-dependent forms of cyclic nucleotide phosphodiesterase by using conformation-specific monoclonal antibody chromatography. <i>Proc Natl Acad Sci U S A</i> 79:2788-2792.</p>		

For research use only; not for use as a diagnostic.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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