ក្តុ Calmodulin (D1F7J) Rabbit mAb





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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit IgG	UniProt ID: #P0DP23	Entrez-Gene Id: 801		
Product Usage Information	2	Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	Calmodulin (D1F7J) Rabbit mAb recognizes endogenous levels of total calmodulin protein.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human calmodulin protein.						
Background		Calmodulin is a ubiquitously expressed small protein mediating many cellular effects such as short- term and long-term memory, nerve growth, inflammation, apoptosis, muscle contraction and intracellular movement (1). Upon binding of four Ca ²⁺ ions, calmodulin undergoes conformational changes, allowing this complex to bind to and activate many enzymes including protein kinases, protein phosphatases, ion channels, Ca ²⁺ pumps, nitric oxide synthase, inositol triphosphate kinase, and cyclic nucleotide phosphodiesterase (2,3). Since calmodulin binds Ca ²⁺ in a cooperative fashion, small changes in cytosolic Ca ²⁺ levels lead to large changes in the level of active calmodulin and its target proteins (4).						
Background R	eferences	1. Persechini, A. et al. (1989) <i>Trends Neurosci</i> 12, 462-7. 2. Finn, B.E. et al. (1995) <i>Nat Struct Biol</i> 2, 777-83. 3. Agell, N. et al. (2002) <i>Cell Signal</i> 14, 649-54. 4. Porter, J.A. et al. (1993) <i>Science</i> 262, 1038-42.						
Species Reacti	vity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat						
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