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Calmodulin Antibody



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

Applications: W	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit	UniProt ID: #P0DP23	Entrez-Gene Id: 801
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Calmodulin Antibody detects endogenous levels of total calmodulin protein.				
Species predicted to react based on 100% sequence homology		Human, Monkey, Xenopus, Pig				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide surrounding Glu140 of human calmodulin. Antibodies are purified by peptide affinity chromatography.				
Background		term and long-term m intracellular movemer changes, allowing this protein phosphatases and cyclic nucleotide p	nemory, nerve grow nt (1). Upon binding complex to bind to , ion channels, Ca ²⁻ chosphodiesterase	mall protein mediating of the inflammation, apoption of four Ca ²⁺ ions, calmon and activate many enzones, nitric oxide syr (2,3). Since calmodulin be to large changes in the	tosis, muscle contra odulin undergoes co ymes including pro othase, inositol triph oinds Ca ²⁺ in a coop	ction and onformational tein kinases, osphate kinase, erative fashion,
Background References		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 Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		M: Mouse R: Rat				
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