-

e at -20C	Calmodulin Antibody		Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
80		Support:	877-678-TECH (8324)	
#4830		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA	

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

Applications: WB	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 17	Source: Rabbit	UniProt ID: #P0DP23	Entrez-Gene Id: 801			
Product Usage Information		pplication /estern 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 Background References		 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 Ca²⁺ ions, calmodulin undergoes conformational changes, allowing this complex to bind to and activate many enzymes including protein kinases, protein phosphatases, ion channels, Ca²⁺ pumps, nitric oxide synthase, inositol triphosphate kinase, and cyclic nucleotide phosphodiesterase (2,3). Since calmodulin binds Ca²⁺ in a cooperative fashion, small changes in cytosolic Ca²⁺ levels lead to large changes in the level of active calmodulin and its target proteins (4). Persechini, A. et al. (1989) <i>Trends Neurosci</i> 12, 462-7. Finn, B.E. et al. (1995) <i>Nat Struct Biol</i> 2, 777-83. Agell, N. et al. (2002) <i>Cell Signal</i> 14, 649-54. Porter, J.A. et al. (1993) <i>Science</i> 262, 1038-42. 							
Species Reactivity	y Spe	Species reactivity is determined by testing in at least one approved application (e.g., western blot).							
Western Blot Buff		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		WB: Western Blotting							
Cross-Reactivity Key		H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected							
Trademarks and Patents	All c	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.							
Limited Uses	follo cone	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.							

Calmodulin Antibody (#4830) Datasheet Without Images Cell Signaling Technology

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.