e at -20C	Myosin IIc Antibody		Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
)5		Support:	877-678-TECH (8324)	
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#		3 Trask Lane   Danvers   M	lassachusetts   01923   USA	

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

Applications: WB	Reactivity: H M Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 230	Source: Rabbit	UniProt ID: #Q7Z406	Entrez-Gene Id: 79784			
Product Usage Information	•	plication estern Blotting			Dilution 1:1000				
Storage			d in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 00 not aliquot the antibody.						
Specificity / Sensi		Myosin IIc Antibody detects endogenous levels of total myosin IIc protein. The antibody does not cross- react with the nonmuscle heavy chains of myosin IIa or IIb.							
Source / Purificati		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human myosin IIc.							
Background	adh The by ti IIa, binc to b myc	Nonmuscle myosin is an actin-based motor protein essential to cell motility, cell division, migration, adhesion, and polarity. The holoenzyme consists of two identical heavy chains and two sets of light chains. The light chains (MLCs) regulate myosin II activity and stability. The heavy chains (NMHCs) are encoded by three genes, <i>MYH9</i> , <i>MYH10</i> , and <i>MYH14</i> , which generate three different nonmuscle myosin II isoforms, IIa, IIb, and IIc, respectively (reviewed in 1). While all three isoforms perform the same enzymatic tasks, binding to and contracting actin filaments coupled to ATP hydrolysis, their cellular functions do not appear to be redundant and they have different subcellular distributions (2-5). The carboxy-terminal tail domain of myosin II is important in isoform-specific subcellular localization (6). Research studies have shown that phosphorylation of myosin II at Ser1943 contributes to the regulation of breast cancer cell migration (7).							
Background Refe	2. S 3. E 4. V 5. W 6. S	<ol> <li>Conti, M.A. and Adelstein, R.S. (2008) <i>J Cell Sci</i> 121, 11-18.</li> <li>Sandquist, J.C. et al. (2006) <i>J Biol Chem</i> 281, 35873-83.</li> <li>Even-Ram, S. et al. (2007) <i>Nat Cell Biol</i> 9, 299-309.</li> <li>Vicente-Manzanares, M. et al. (2007) <i>J Cell Biol</i> 176, 573-80.</li> <li>Wylie, S.R. and Chantler, P.D. (2008) <i>Mol Biol Cell</i> 19, 3956-68.</li> <li>Sandquist, J.C. and Means, A.R. (2008) <i>Mol Biol Cell</i> 19, 5156-67.</li> <li>Dulyaninova, N.G. et al. (2007) <i>Mol Biol Cell</i> 18, 3144-55.</li> </ol>							
Species Reactivity	y Spec	ies reactivity is dete	rmined by testing i	n at least one approv	ved application (e.g., we	estern blot).			
Western Blot Buff		ORTANT: For wester Tween® 20 at 4°C		pate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, haking, overnight.					
Applications Key	WB	WB: Western Blotting							
Cross-Reactivity I	X: X:	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>							
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