48189 store at -20q

Myosin IIc (D4A7) Rabbit mAb



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Applications: WB, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 230	Source/Isotype: Rabbit IgG	UniProt ID: #Q7Z406	Entrez-Gene Id: 79784
Product Usage Information	Ар	plication				Dilution
	We	stern Blotting				1:1000
	Imr	munofluorescence (Immunocytochen	nistry)		1:50
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.				
Specificity / Sensitivity		Myosin IIc (D4A7) Rabbit mAb recognizes endogenous levels of total myosin IIc protein. This antibody does not cross-react with myosin IIa or myosin IIb.				
Source / Purification		oclonal antibody is dues surrounding G		nunizing animals with a s myosin IIc protein.	synthetic peptide corr	esponding to
Background	adh The by ti IIa, bind to b myd	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 Refer	2. S 3. E 4. V 5. W	 Conti, M.A. and Adelstein, R.S. (2008) J Cell Sci 121, 11-18. Sandquist, J.C. et al. (2006) J Biol Chem 281, 35873-83. Even-Ram, S. et al. (2007) Nat Cell Biol 9, 299-309. Vicente-Manzanares, M. et al. (2007) J Cell Biol 176, 573-80. Wylie, S.R. and Chantler, P.D. (2008) Mol Biol Cell 19, 3956-68. Sandquist, J.C. and Means, A.R. (2008) Mol Biol Cell 19, 5156-67. 				

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry)

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

7. Dulyaninova, N.G. et al. (2007) Mol Biol Cell 18, 3144-55.

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Myosin IIc (D4A7) Rabbit mAb (#8189) Datasheet Without Images Cell Signaling Technology

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