8824 Store at -20C

Myosin IIb (D8H8) XP[®] Rabbit mAb Orders: 877-616-CELL (2355)



3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: WB, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 230	Source/Isotype: Rabbit IgG	UniProt ID: #P35580	Entrez-Gene Id: 4628
Product Usage Information	We	plication estern Blotting munofluorescence (Ir	nmunocytochen	nistry)	1:10	tion 100 10 - 1:400
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 / Sensi	tivity Myc	Myosin IIb (D8H8) $XP^{ extsf{B}}$ Rabbit mAb recognizes endogenous levels of total myosin IIb protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human myosin IIb protein.				
Background		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 IIa at Ser1943 contributes to the regulation of breast cancer cell migration (7).				
Background Refe	2. S 3. E 4. V 5. W 6. S	 Conti, M.A. and Adelstein, R.S. (2008) <i>J Cell Sci</i> 121, 11-18. Sandquist, J.C. et al. (2006) <i>J Biol Chem</i> 281, 35873-83. Even-Ram, S. et al. (2007) <i>Nat Cell Biol</i> 9, 299-309. Vicente-Manzanares, M. et al. (2007) <i>J Cell Biol</i> 176, 573-80. Wylie, S.R. and Chantler, P.D. (2008) <i>Mol Biol Cell</i> 19, 3956-68. Sandquist, J.C. and Means, A.R. (2008) <i>Mol Biol Cell</i> 19, 5156-67. Dulyaninova, N.G. et al. (2007) <i>Mol Biol Cell</i> 18, 3144-55. 				
Species Reactivity	y Spec	cies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	estern blot).
Western Blot Buff		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: Immunofluo	rescence (Immunocytoc	hemistry)	
Cross-Reactivity F	X: X:	 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	XP is All of	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. XP is a registered 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	follov cond	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.				

Myosin IIb (D8H8) XP® Rabbit mAb (#8824) 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.