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 | | | | |
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Myosin IIb (D8H8) XP® Rabbit mAb (#8824) Datasheet Without Images Cell Signaling Technology

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