.6 Store at -20C

Profilin-1 (C56B8) Rabbit mAb Update bro



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Applications: W	Reactivity: H M R Hm Mk Dg	Sensitivity: Endogenous	MW (kDa): 15	Source/Isotype: Rabbit IgG	UniProt ID: #P07737	Entrez-Gene Id: 5216
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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		Profilin-1 (C56B8) Rabbit mAb detects endogenous levels of total profilin-1 protein. The antibody may cross-react with profilin-2.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human profilin-1.				
Background		The dynamic polymerization and depolymerization of actin filaments, a process governed by external and internal signaling events, is vital for cell motility (immune cell function, migration, invasion, metastasis, angiogenesis), cell division and adhesion. Among the many regulators of actin dynamics are profilins. Profilins are conserved actin binding proteins that affect the rate of actin polymerization by binding actin monomers and promoting the exchange of ADP for ATP (reviewed in 1). Profilins bind to proteins involved in the regulation of actin dynamics including palladin (2), dynamin-1 (3), VASP (4) and N-WASP (5). In mice, knockout of the ubiquitously expressed profilin-1 indicates that the protein is essential for embryonic development (6). Profilin-2 is primarily expressed in brain and functions in the regulation of neurite outgrowth (7), membrane trafficking and endocytosis (3). The recently cloned profilin-3 is expressed in kidney and testes (8).				
Background References		1. Witke, W. (2004) <i>Trends Cell Biol</i> 14, 461-9. 2. Boukhelifa, M. et al. (2006) <i>FEBS J</i> 273, 26-33. 3. Gareus, R. et al. (2006) <i>J Biol Chem</i> 281, 2803-11. 4. Reinhard, M. et al. (1995) <i>EMBO J</i> 14, 1583-9. 5. Suetsugu, S. et al. (1998) <i>EMBO J</i> 17, 6516-26. 6. Witke, W. et al. (2001) <i>Proc Natl Acad Sci U S A</i> 98, 3832-6. 7. Da Silva, J.S. et al. (2003) <i>J Cell Biol</i> 162, 1267-79. 8. Hu, E. et al. (2001) <i>Exp Nephrol</i> 9, 265-74.				

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 W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey Dg: Dog

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