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Profilin-1 (C56B8) Rabbit mAb



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Applications: Entrez-Gene Id: Reactivity: Sensitivity: MW (kDa): Source/Isotype: **UniProt ID:** WB HMR Hm Mk Dg Endogenous 15 Rabbit IgG #P07737 5216 **Product Usage** Application Dilution Information Western Blotting 1:1000 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than **Storage** 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Profilin-1 (C56B8) Rabbit mAb detects endogenous levels of total profilin-1 protein. The antibody may Specificity / Sensitivity cross-react with profilin-2. Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to Source / Purification residues near the amino terminus of human profilin-1. The dynamic polymerization and depolymerization of actin filaments, a process governed by external and Background 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). 1. Witke, W. (2004) Trends Cell Biol 14, 461-9. **Background References** 2. Boukhelifa, M. et al. (2006) FEBS J 273, 26-33. 3. Gareus, R. et al. (2006) J Biol Chem 281, 2803-11. 4. Reinhard, M. et al. (1995) EMBO J 14, 1583-9. 5. Suetsugu, S. et al. (1998) EMBO J 17, 6516-26.

Witke, W. et al. (2001) Proc Natl Acad Sci U S A 98, 3832-6.
Da Silva, J.S. et al. (2003) J Cell Biol 162, 1267-79.
Hu, E. et al. (2001) Exp Nephrol 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 WB: Western Blotting

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

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