Store at -200

Profilin-1 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB, IF-IC, FC-FP	Reactivity: H M R B	Sensitivity: Endogenous	MW (kDa): 15	Source: Rabbit	UniProt ID: #P07737	Entrez-Gene Id: 5216	
Product Usage Information	Ар	plication				Dilution	
	We	stern Blotting				1:1000	
	Imr	nunofluorescence (Immunocytochemis	stry)		1:50	
	Flo	w Cytometry (Fixed	I/Permeabilized)			1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		Profilin-1 Antibody detects endogenous levels of total profilin-1 protien. The antibody may cross-react with profilin-2.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human profilin-1. Antibodies are purified using protein A and peptide affinity chromatography.					
Background	inter ang Prof mor in th mice deve outg	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) Trends Cell Biol 14, 461-9.
- 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.
- 6. Witke, W. et al. (2001) Proc Natl Acad Sci U S A 98, 3832-6.
- 7. Da Silva, J.S. et al. (2003) J Cell Biol 162, 1267-79.
- 8. 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 IF-IC: Immunofluorescence (Immunocytochemistry)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

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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Limited Uses

Profilin-1 Antibody (#3237) Datasheet Without Images Cell Signaling Technology

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