Cofilin (D3F9) XP® Rabbit mAb



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Applications: W, W-S, IF-IC	Reactivity: H M R Mk Dg	Sensitivity: Endogenous	MW (kDa): 19	Source/Isotype: Rabbit IgG	UniProt ID: #P23528	Entrez-Gene Id: 1072
Product Usage Information		Application Western Blotting Simple Western™ Immunofluorescence (Immunocytochemistry)			Dilution 1:1000 1:10 - 1:50 1:200 - 1:800	
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/Sensitivity		Cofilin (D3F9) XP [®] Rabbit mAb detects endogenous levels of total cofilin1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to central residues of human cofilin1 protein.				
Background		Cofilin and actin-depolymerization factor (ADF) are members of a family of essential conserved small actin-binding proteins that play pivotal roles in cytokinesis, endocytosis, embryonic development, stress response, and tissue regeneration (1). In response to stimuli, cofilin promotes the regeneration of actin filaments by severing preexisting filaments (2). The severing activity of cofilin is inhibited by LIMK or TESK phosphorylation at Ser3 of cofilin (3-5). Phosphorylation at Ser3 also regulates cofilin translocation from the nucleus to the cytoplasm (6).				
Background References		 Carlier, M.F. et al. (1999) J Biol Chem 274, 33827-30. Condeelis, J. (2001) Trends Cell Biol 11, 288-93. Arber, S. et al. (1998) Nature 393, 805-9. Yang, N. et al. (1998) Nature 393, 809-12. Toshima, J. et al. (2001) J Biol Chem 276, 31449-58. Nebl, G. et al. (1996) J Biol Chem 271, 26276-80. 				
Species React	ivity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat				

dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting W-S: Simple Western™ IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey Dg: Dog

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