Store at -200

## Cofilin (D3F9) XP® Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> WB, W-S, IF-IC	<b>Reactivity:</b> H M R Mk Dg	Sensitivity: Endogenous	<b>MW (kDa):</b> 19	Source/Isotype: Rabbit IgG	UniProt ID: #P23528	Entrez-Gene Id: 1072	
Product Usage Information	Арр	Application			Dilution		
	Wes	Western Blotting				1:1000	
	Sim	Simple Western™				1:10 - 1:50	
	Imn	Immunofluorescence (Immunocytochemistry)			1:200 - 1:800		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20$ °C. Do not aliquot the antibody.					
Specificity / Sen	sitivity Cofil	Cofilin (D3F9) XP <sup>®</sup> Rabbit mAb detects endogenous levels of total cofilin1 protein.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to central residues of human cofilin1 protein.					
Background	bindi respi filam phos	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 Ref	2. Cc 3. Ar 4. Ya 5. To	<ol> <li>Carlier, M.F. et al. (1999) J Biol Chem 274, 33827-30.</li> <li>Condeelis, J. (2001) Trends Cell Biol 11, 288-93.</li> <li>Arber, S. et al. (1998) Nature 393, 805-9.</li> <li>Yang, N. et al. (1998) Nature 393, 809-12.</li> <li>Toshima, J. et al. (2001) J Biol Chem 276, 31449-58.</li> <li>Nebl, G. et al. (1996) J Biol Chem 271, 26276-80.</li> </ol>					

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

**Applications Key** 

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

**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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