## #3318 Store at -20C

## Cofilin (D59) Antibody



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Applications: WB	Reactivity: H M R Mk B	Sensitivity: Endogenous	<b>MW (kDa):</b> 19	Source: Rabbit	<b>UniProt ID:</b> #P23528	Entrez-Gene Id: 1072	
Product Usage Information	Ap	Application			Dilution		
	We	Western Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sen	<b>sitivity</b> Cof	Cofilin (D59) Antibody detects endogenous levels of total cofilin protein.					
Source / Purifica	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp59 of human cofilin. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	bind resj filar pho	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. C 3. A 4. Y 5. T	Condeelis, J. (2001) urber, S. et al. (1998 Yang, N. et al. (1998 Oshima, J. et al. (20	rlier, M.F. et al. (1999) <i>J Biol Chem</i> 274, 33827-30. ndeelis, J. (2001) <i>Trends Cell Biol</i> 11, 288-93. per, S. et al. (1998) <i>Nature</i> 393, 805-9. ng, N. et al. (1998) <i>Nature</i> 393, 809-12. shima, J. et al. (2001) <i>J Biol Chem</i> 276, 31449-58. bl, G. et al. (1996) <i>J Biol Chem</i> 271, 26276-80.				

**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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