

#3311 Store at -20C

Phospho-Cofilin (Ser3) Antibody

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Hm Mk B	Endogenous	19	Rabbit	#P23528	1072

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Phospho-Cofilin (Ser3) Antibody detects endogenous levels of cofilin only when phosphorylated at serine 3. The antibody may cross-react with phosphorylated cofilin 2, the muscle isoform.	
Species predicted to react based on 100% sequence homology:	Pig	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser3 of human cofilin. Antibodies are purified by protein A and peptide affinity chromatography.	
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	<ol style="list-style-type: none"> 1. Carlier, M.F. et al. (1999) <i>J Biol Chem</i> 274, 33827-30. 2. Condeelis, J. (2001) <i>Trends Cell Biol</i> 11, 288-93. 3. Arber, S. et al. (1998) <i>Nature</i> 393, 805-9. 4. Yang, N. et al. (1998) <i>Nature</i> 393, 809-12. 5. Toshima, J. et al. (2001) <i>J Biol Chem</i> 276, 31449-58. 6. Nebl, 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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