#3311

Phospho-Cofilin (Ser3) Antibody



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	Reactivity: H M R Hm Mk B	Sensitivity: Endogenous	MW (kDa): 19	Source/Isotype: Rabbit	UniProt ID: #P23528	Entrez-Gene Id: 1072		
Product Usage Information	e	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. Sto 20°C. Do not aliquot the antibody.				ycerol. Store at –		
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 predic based on 100% homology	ted to react 6 sequence	Pig						
Source / Purifi	ication	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 actin-binding proteins that play pivotal roles in cytokinesis, endocytosis, embryonic developmer stress response, and tissue regeneration (1). In response to stimuli, cofilin promotes the regene of actin filaments by severing preexisting filaments (2). The severing activity of cofilin is inhibited. LIMK or TESK phosphorylation at Ser3 of cofilin (3-5). Phosphorylation at Ser3 also regulates cof translocation from the nucleus to the cytoplasm (6).						development, the regeneration n is inhibited by		
Background R	eferences	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 React	ivity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
			rn blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X t 4°C with gentle shaking, overnight.					
Applications K	Applications Key W: Western Blotting							
Cross-Reactivi	ross-Reactivity Key H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey B: Bovine							
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
		All other trademarks a more information.	are the property of t	heir respective owners.	Visit cellsignal.com	/trademarks for		
Limited Uses		Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.						
Products are labeled with For Research Use Only or a similar labeling statement and have approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity,								

purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.