## #13873 Store at -20C

## Phospho-SSH3 (Ser37) Antibody



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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 90	Source: Rabbit	UniProt ID: #Q8TE77	Entrez-Gene Id: 54961	
Product Usage Information	Ар	plication		Dilution			
illiorillation	We	estern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 20°C. Do not aliquot the antibody.				glycerol. Store at –	
Specificity / Sensitivity		Phospho-SSH3 (Ser37) Antibody recognizes endogenous levels of SSH3 protein only when phosphorylated at Ser37.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser37 of human SSH3 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	dephosphorylation. Cofilin is an evolutionarily of during processes that rely on actin filament dyn neuronal development. Actin severing and filam cycling of cofilin between the phosphorylated at TESK inactivate cofilin by phosphorylating it at lesser extent, SSH3) and chronophin/PDXP pho enabling cofilin binding to actin and filament dep tissues, and has been found to be non-essentia			rily conserved, actir t dynamics, includin filament depolymer ed and dephosphor it at Ser3 (2,3). The P phosphatases rer nt depolymerization sential for viability ar	sphatase that modifies actin cytoskeleton dynamics via cofilin y conserved, actin-binding protein that severs actin filaments lynamics, including cytokinesis, cell migration, invasion, and ament depolymerization are regulated through the controlled I and dephosphorylated forms (1). The kinases LIMK and at Ser3 (2,3). The slingshot homologs (SSH1, SSH2, and, to a phosphatases remove phosphate from cofilin at Ser3, depolymerization (3). SSH3 is widely expressed in epithelial tital for viability and fertility in knockout mice (4). While its rylation at Ser37 of SSH3 has been identified in several		
Background Refe	2. To 3. H 4. K 5. D 6. O	<ol> <li>Mizuno, K. (2013) Cell Signal 25, 457-69.</li> <li>Toshima, J. et al. (2001) J Biol Chem 276, 31449-58.</li> <li>Huang, T.Y. et al. (2006) Curr Opin Cell Biol 18, 26-31.</li> <li>Kousaka, K. et al. (2008) Genesis 46, 246-55.</li> <li>Dephoure, N. et al. (2008) Proc Natl Acad Sci U S A 105, 10762-7.</li> <li>Olsen, J.V. et al. (2010) Sci Signal 3, ra3.</li> <li>Chen, L. et al. (2010) J Proteome Res 9, 174-8.</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

**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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