	SSH1 (E1K3W) Rabbit mAb	T C			
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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit IgG	UniProt ID: #Q8WYL5	Entrez-Gene Id: 54434		
Product Usage Information		Application Western Blotting		Dilution 1:1000 1:100				
Storage	Suj	Immunoprecipitation 1:100 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliguot the antibody.						
Specificity / Sensitivity		SSH1 (E1K3W) Rabbit mAb recognizes endogenous levels of total SSH1 protein. Based on the absence of sequence homology, this antibody is not expected to recognize SSH2 or SSH3.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro1018 of human SSH1 protein.						
Background		Cofilin is an evolutionarily conserved, actin-binding protein that severs actin filaments during processes that rely on actin filament dynamics, including cytokinesis, cell migration, invasion, and neuronal development. Actin severing and filament depolymerization are regulated through the controlled cycling of cofilin between the phosphorylated and dephosphorylated forms (1). The kinases LIMK and TESK inactivate cofilin by phosphorylating it at Ser3 (2,3). The slingshot homologs (SSH1, SSH2 and SSH3) and chronophin/PDXP phosphatases remove phosphate from cofilin at Ser3, enabling cofilin binding to actin and filament depolymerization (3). LIMK and SSH1 regulate cofilin activity downstream of neuregulin signaling in Schwann cells (4).						
	of c bur and	cofilin (5). In addition ndling independent o	, SSH1 modulate f its cofilin phosp raction through v	ephosphorylate LIMK kir s actin dynamics by sta hatase activity (6). SSH arious signaling pathwa ^y (7).	bilizing F-actin and pro 1 activity is regulated I	omoting actin by phosphorylation		
Background Refere	2. 1 3. F 4. S 5. S 6. F	Aizuno, K. (2013) Ce Toshima, J. et al. (20 Huang, T.Y. et al. (20 Sparrow, N. et al. (20 Soosairajah, J. et al. Kurita, S. et al. (2007 Kurita, S. et al. (2008	01) J Biol Chem : 06) Curr Opin Ce 12) J Neurosci 3 (2005) EMBO J 2) Genes Cells 12	276, 31449-58. // <i>Biol</i> 18, 26-31. 2, 5284-97. 24, 473-86. 4, 663-76.				
Species Reactivity	Spe	cies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., we	estern blot).		
Western Blot Buffer				membrane with diluted th gentle shaking, overr		% w/v nonfat dry		
Applications Key	WB	: Western Blotting I	•: Immunoprecipi	tation				
Cross-Reactivity Ke	X : X		B: bovine Dg: de	Mk: monkey Vir: virus I og Pg: pig Sc: S. cerevi es expected		0		
Trademarks and Patents								

SSH1 (E1K3W) Rabbit mAb (#13578) Datasheet Without Images Cell Signaling Technology

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