Store at -20C

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Sharpin Antibody Cell Signaling TECHNOLOGY* Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com

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

Applications:	Reactivity:	Sensitivity: Endogenous	MW (kDa): 43	Source/Isotype: Rabbit	UniProt ID: #09H0E6	Entrez-Gene Id:
Product Usage Information		Application Western Blotting Immunoprecipitation	15		Dilution 1:1000 1:50	
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		Sharpin Antibody recognizes endogenous levels of total Sharpin protein. This antibody does not cross- react with HOIL-1/RBCK1.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Sharpin protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Shank-associated RH domain-interacting protein (<i>Sharpin</i>), also known as <i>SIPL1</i> , is a highly conserved gene among many mammalian species and is ubiquitously expressed in various types of cells and tissues. Sharpin harbors multiple functional motifs including an amino terminal coiled-coil (CC) domain, which has been shown to mediate the interaction between Sharpin and the scaffold protein SHANK (1). The other two domains, ubiquitin-like domain (UBL) and NPL4 zinc finger domain (NZF), facilitate ubiquitin-mediated protein recognition and degradation (2). Recent studies have shown that both UBL and NZF domains are essential for Sharpin to exert its function in part through ubiquitin-mediated mechanisms (3-5). Although Sharpin was initially identified as a scaffold protein within the postsynaptic density of neurons (1), recent studies have identified Sharpin as a novel modulator of immune and inflammatory diseases. An emerging mechanistic model suggests that Sharpin functions as an important adaptor component of the Linear Ubiquitin Chain Assembly Complex (LUBAC) that modulates activation of the canonical NF-κB signaling pathway (3,4,6,7), thereby regulating cell survival and apoptosis, cytokine production, and lymphoid tissue development. Indeed, mice with spontaneous mutations in the <i>Sharpin</i> gene develop chronic proliferative dermatitis that is characterized by eosinophilic inflammation of the skin and dysregulated lymphoid tissue development (8).				
Background Re	eferences	1. Lim, S. et al. (2001) 2. Grabbe, C. and Diki 3. Ikeda, F. et al. (2011 4. Tokunaga, F. et al. (2 5. Iwai, K. (2011) <i>Cell (</i> 6. Gerlach, B. et al. (20 7. Tokunaga, F. et al. (2 8. Seymour, R.E. et al.	<i>Mol Cell Neurosci</i> 1 c, I. (2009) <i>Chem Re</i>) <i>Nature</i> 471, 637-4 2011) <i>Nature</i> 471, 6 <i>Cycle</i> 10, 3095-104.)11) <i>Nature</i> 471, 59 2009) <i>Nat Cell Biol</i> 1 (2007) <i>Genes Immu</i>	7, 385-97. 2v 109, 1481-94. 1. 33-6. 1-6. 11, 123-32. <i>un</i> 8, 416-21.		
Spacing Baastin		Spaciae reactivity is de	stormined by testin	a in at least one approve	ad application (o.g.)	wastara blat)
	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For west TBS, 0.1% Tween® 20	For western blots, incubate membrane with diluted primary antibody in 5% W/V BSA, 1X een® 20 at 4°C with gentle shaking, overnight.			
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human				
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