Revision 4		
CISH (D4D9) Rabbit mAb		J
Stor	Orders: 877-616-CELL (2355 orders@cellsignal.con	5) n
	Support: 877-678-TECH (8324	ł)
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Applications: W, IP, FC-FP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 32, 37	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NSE2	Entrez-Gene Id: 1154	
Product Usage Information	5	Application Western Blotting Immunoprecipitation Flow Cytometry (Fixed/Permeabilized)		Dilution 1:1000 1:100 1:50 - 1:200			
Storage		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 aliquot the antibody.					
		For a carrier free (BSA and azide free) version of this product see product #39434.					
Specificity/Ser	nsitivity	CISH (D4D9) Rabbit m	hAb recognizes end	ogenous levels of total C	ISH protein.		
Species predic based on 100% homology	ted to react 6 sequence	Monkey					
Source / Purifi	ication	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro176 of human CISH protein.					
Background		The suppressor of cytokine signaling (SOCS) family members are negative regulators of cytokine signal transduction that inhibit the Jak/Stat pathway (1-3). The SOCS family consists of at least 8 members including the originally identified cytokine-inducible SH2-containing protein (CIS1), as well as SOCS1-7. Each SOCS family member contains a central SH2 domain and a conserved carboxy-terminal motif designated as the SOCS box. These proteins are important regulators of cytokine signaling, proliferation, differentiation, and immune responses. CISH/CIS1, the first described member of the SOCS family, is induced by a number of cytokines including IL-2, IL-3, GM-CSF, and EPO (4). The CISH protein appears as a doublet around 32 and 37 kDa, the nature of which is unknown (4). CISH binds to phosphorylated cytokine receptors and can inhibit Stat5 activity (4-6). Expression of CISH is regulated by Stat5, thereby providing feedback modulation (5). Transgenic mice overexpressing CISH display phenotypes similar to Stat5 knockouts, including defects in mammary gland development and in T and NK cell regulation (6). Research studies have shown that polymorphisms within the CISH gene are associated with susceptibility to infectious diseases (7).					
Background R	eferences	1. Alexander, W.S. et a 2. Chen, X.P. et al. (20 3. Hilton, D.J. et al. (19 4. Yoshimura, A. et al. 5. Matsumoto, A. et a 6. Matsumoto, A. et a 7. Khor, C.C. et al. (20	N.S. et al. (1999) <i>J Leukoc Biol</i> 66, 588-92. t al. (2000) <i>Immunity</i> 13, 287-90. et al. (1998) <i>Proc Natl Acad Sci USA</i> 95, 114-9. A. et al. (1995) <i>EMBO J</i> 14, 2816-26. , A. et al. (1997) <i>Blood</i> 89, 3148-54. , A. et al. (1999) <i>Mol Cell Biol</i> 19, 6396-407. t al. (2010) <i>N Engl J Med</i> 362, 2092-101.				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot I	Buffer	IMPORTANT: For wes dry milk, 1X TBS, 0.19	tern blots, incubate 6 Tween® 20 at 4°C	e membrane with diluted primary antibody in 5% w/v nonfat With gentle shaking, overnight.			
Applications K	(ey	W: Western Blotting IP: Immunoprecipitation FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivi	ty Key	H: Human M: Mouse					
Trademarks a	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.					
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