e at -20C	CISH (D4C10) Rabbit mAb		Cell Signaling TECHNOLOGY®		
Store (Orders:	877-616-CELL (2355) orders@cellsignal.com		
31		Support:	877-678-TECH (8324)		
#8431		Web:	info@cellsignal.com cellsignal.com		
#		3 Trask Lane Danvers Mas	ssachusetts 01923 USA		

Eor Research Lise Only	/ Not for Lise in	Diagnostic Procedures.
FUI RESEAICII USE UIII	. NULIULUSE III	Diagnostic Procedures.

Applications: WB, IP	Reactivity H	: Sensitivity: Endogenous	MW (kDa): 32, 37	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NSE2	Entrez-Gene Id: 1154	
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensi	itivity	CISH (D4C10) Rabbit mAb recognizes endogenous levels of total CISH protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val33 of human CISH protein.					
Background Background References		 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). Alexander, W.S. et al. (1999) <i>J Leukoc Biol</i> 66, 588-92. Chen, X.P. et al. (2000) <i>Immunity</i> 13, 287-90. Hilton, D.J. et al. (1998) <i>Proc Natl Acad Sci USA</i> 95, 114-9. Yoshimura, A. et al. (1997) <i>Blood</i> 89, 3148-54. Matsumoto, A. et al. (1997) <i>Blood</i> 89, 3148-54. Matsumoto, A. et al. (1999) <i>Mol Cell Biol</i> 19, 6396-407. Khor, C.C. et al. (2010) <i>N Engl J Med</i> 362, 2092-101. 					
Species Reactivity	y s	Species reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	,	WB: Western Blotting IP: Immunoprecipitation					
Cross-Reactivity I	×	 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 					
Trademarks and Patents	A	Cell Signaling Technology All other trademarks are th nformation.				demarks for more	
Limited Uses							

CISH (D4C10) Rabbit mAb (#8431) Datasheet Without Images Cell Signaling Technology

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 not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any 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 any trademarks, trade names, logos, patent or copyright notices or markings, (d) use 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.