CISH (D4C10) Rabbit mAb



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W, 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 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		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		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).				
		including IL-2, IL-3, GN the nature of which is Stat5 activity (4-6). Exp Transgenic mice overe in mammary gland de	M-CSF, and EPO (4). unknown (4). CISH ression of CISH is I xpressing CISH dis velopment and in 1	The CISH protein appea binds to phosphorylated egulated by Stat5, there play phenotypes similar and NK cell regulation (rs as a doublet aroud cytokine receptor by providing feedb to Stat5 knockouts (6). Research studie	und 32 and 37 kDa, s and can inhibit ack modulation (5). , including defects s have shown that

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: Human

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