IRF-4 Antibody	Cell Signaling TECHNOLOGY®			
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com		
	Support:	877-678-TECH (8324)		
#4964	Web:	info@cellsignal.com cellsignal.com		
#	3 Trask Lane Danvers Mas	sachusetts 01923 USA		
For Research Use Only. Not for Use in Diagnostic Procedures.				

Applications: W, W-S, IP, ChIP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 51	Source/Isotype: Rabbit	UniProt ID: #Q15306	Entrez-Gene Id: 3662
Product Usage Information		For optimal ChIP results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) per IP.			ly 4 x 10 ⁶ cells) per	
		This antibody has been validated using SimpleChIP $^{\textcircled{B}}$ Enzymatic Chromatin IP Kits.				
		Application Western Blotting Simple Western™ Immunoprecipitatior Chromatin IP	ı		Dilution 1:1000 1:10 - 1:50 1:50 1:50	
Storage		Supplied in 10 mM so 20°C. Do not aliquot		5), 150 mM NaCl, 100 μg	/ml BSA and 50% gl	ycerol. Store at –
Specificity/Sens	itivity	IRF-4 Antibody detect other family member	5	s of IRF-4 protein. The a vels.	ntibody does not cr	oss-react with
Source / Purifica	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues around Asp175 of human IRF-4. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Jak/Stat pathway to r infection (1). IRFs play development, cell gro IRF-1, IRF-2, IRF-9/ISC proteins share homo transcription through	egulate interferon (I y an important role owth, and susceptibi GF3γ, IRF-3, IRF-4 (Pi logy in their amino- n interactions with p	rise a family of transcrip FN) and IFN-inducible g in pathogen defense, au lity to transformation. T p/LSIRF/ICSAT), IRF-5, IR terminal DNA-binding de roteins that share simila l consensus sequences (ene expression in re toimmunity, lymph he IRF family includ F-6, IRF-7, and IRF-8 omains. IRF family r r DNA-binding mot	esponse to viral ocyte es nine members: 3/ICSBP. All IRF nembers regulate ifs, such as IFN-
		of lymphoid regulatic member of the ETS fa characterized as a lyr Third, it was identifie gene (ICSAT), and sho of B cell developmen mimetic stimuli such deficient in IRF-4 sho	on (3-5). First, IRF-4 (amily, and to regulat nphoid-specific mer d in activated T cells own to repress gene t and in mature T ce as Concavalin A, CD w normal distributic zed lymphadenopat	groups and demonstrat Pip) was found to associ the the expression of B-ce nber of the IRF family (L as a factor that binds to activation induced by IF Ils, and is inducible in pr 3 crosslinking, anti-IgM on of B and T lymphocyto ny, suggesting a role for	ate with PU.1, a her Il specific genes (3) SIRF) and able to bi the promoter of th N (5). IRF-4 is expre imary lymphocytes and PMA treatment es at 4 to 5 weeks, b	natopoietic specific Second, it was nd to ISRE (4). ie interleukin-5 ssed in all stages by antigen : (4,5). Mice put later develop
Background Ref	ferences	1. Taniguchi, T. et al. (2. Honda, K. and Tani 3. Eisenbeis, C.F. et al 4. Matsuyama, T. et a 5. Yamagata, T. et al. 6. Mittrücker, H.W. et	guchi, T. (2006) <i>Nat</i> l. (1995) <i>Genes Dev</i> l. (1995) <i>Nucleic Aci</i> (1996) <i>Mol Cell Biol</i>	<i>Rev Immunol</i> 6, 644-58. ∂, 1377-87. <i>ds Res</i> 23, 2127-36. 16, 1283-94.		

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 W-S: Simple Western™ IP: Immunoprecipitation ChIP: Chromatin IP
Cross-Reactivity Key	H: Human
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