IRF-8 (D20D8) Rabbit mAb



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Applications: W, W-S, IP, ChIP, ChIP-seq	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #Q02556	Entrez-Gene Id: 3394
Product Usage Information		For optimal ChIP and ChIP-seq results, use 20 μ l of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.				
		Application			Dilution	
		Western Blotting			1:1000	
		Simple Western™			1:10 - 1:50	
		Immunoprecipitation	1		1:50	
		Chromatin IP			1:25	
		Chromatin IP-seq			1:25	
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		IRF-8 (D20D8) Rabbit mAb detect endogenous levels of total IRF-8 protein. An unknown background band is detected at 80 kDa in some cell lines.				
Species predicted to react based on 100% sequence homology		Rat, Monkey, Xenopu	s, Bovine			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly65 of human IRF-8 protein.				
Background		Interferon regulatory factors (IRFs) comprise a family of transcription factors that function within the Jak/Stat pathway to regulate interferon (IFN) and IFN-inducible gene expression in response to viral infection (1). IRFs play an important role in pathogen defense, autoimmunity, lymphocyte development, cell growth, and susceptibility to transformation. The IRF family includes nine members: IRF-1, IRF-2, IRF-9/ISGF3γ, IRF-3, IRF-4 (Pip/LSIRF/ICSAT), IRF-5, IRF-6, IRF-7, and IRF-8/ICSBP. All IRF proteins share homology in their amino-terminal DNA-binding domains. IRF family members regulate transcription through interactions with proteins that share similar DNA-binding motifs, such as IFN-stimulated response elements (ISRE), IFN consensus sequences (ICS), and IFN regulatory elements (IRF-E) (2).				
		with interferon (3,4). Expression of IRF-8 ca described as being in and T cells (6). IRF-8 c production of interfe	IRF-8 can function a an lead to the down duced by IFN-y, IRF deficient mice have rons, as well as dere	in hematopoietic cells ar s a transcription repress regulation of the anti-ap -8 expression is also elevenhanced susceptibility to gulated hematopoiesis metabolism by suppress	or of ICS-containin optotic protein Bcl- rated by IRF-α as we to various pathoger that resembles chro	g promoters (4). 2 (5). Originally ell as IL-12 in NK ns and impaired onic myelogenous
Background References		1. Taniguchi, T. et al. (2001) <i>Annu Rev Immunol</i> 19, 623-55. 2. Honda, K. and Taniguchi, T. (2006) <i>Nat Rev Immunol</i> 6, 644-58. 3. Driggers, P.H. et al. (1990) <i>Proc Natl Acad Sci U S A</i> 87, 3743-7. 4. Weisz, A. et al. (1992) <i>J Biol Chem</i> 267, 25589-96. 5. Burchert, A. et al. (2004) <i>Blood</i> 103, 3480-9. 6. Lehtonen, A. et al. (2003) <i>Cytokine</i> 24, 81-90. 7. Holtschke, T. et al. (1996) <i>Cell</i> 87, 307-17. 8. Fehr, T. et al. (1997) <i>J Exp Med</i> 185, 921-31. 9. Zhao, B. et al. (2009) <i>Nat Med</i> 15, 1066-71.				

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 ChIP-seq:

Chromatin IP-seq

Cross-Reactivity Key H: Human M: Mouse

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