Cross-Reactivity Key

Trademarks and Patents

H: Human

IRF-9 (D2T8M) Rabbit mAb



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Applications: W, IP, IF-IC, ChIP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 48	Source/Isotype: Rabbit IgG	UniProt ID: #Q00978	Entrez-Gene Id 10379
Product Usage Information		For optimal ChIP results, use 10 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 Western Blotting				Dilution 1:1000
		Immunoprecipitation	1			1:50
		Immunofluorescence	(Immunocytochem	istry)		1:3200
		Chromatin IP		•		1:50
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/Sensitivity		IRF-9 (D2T8M) Rabbit mAb recognizes endogenous levels of total IRF-9 protein. This antibody also cross-reacts with an unidentified protein of 95 kDa. Non-specific nucleolar background has been observed by immunofluorescence in some cultured cell lines.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to human IRF-9 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/ISGF3Y, 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).				
		assembles into a pro	tein complex with St feron response gene	N- α, IFN-β), interferon re at1 and Stat2 and transl es by binding to ISREs (3	locates to the nucle	eus where it induces
Background References		 Taniguchi, T. et al. (2001) Annu Rev Immunol 19, 623-55. Honda, K. and Taniguchi, T. (2006) Nat Rev Immunol 6, 644-58. Fu, X.Y. et al. (1990) Proc Natl Acad Sci U S A 87, 8555-9. Qureshi, S.A. et al. (1995) Proc Natl Acad Sci U S A 92, 3829-33. Levy, D.E. et al. (1990) EMBO J 9, 1105-11. 				
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 IF-IC: Immunofluorescence (Immunocytochemistry) ChIP: Chromatin IP				

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