

IRF-7 (D2A1J) Rabbit mAb



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Applications: W, W-S	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 65	Source/Isotype: Rabbit IgG	UniProt ID: #Q92985	Entrez-Gene Id: 3665
Product Usage Information		Application Western Blotting Simple Western™		Dilution 1:1000 1:10 - 1:50		
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-7 (D2A1J) Rabbit mAb recognizes endogenous levels of total IRF-7 protein.				
Species predicted to react based on 100% sequence homology		Monkey				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro115 of human IRF-7 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).				
		virus, LPS, and IFN-α (to viral infection (6-8)	(3-5).́ IRF-7 plays an . IRF-7 is regulated ຄ RF-3, which are requ	3, is preferentially expre essential role in the ind at multiple serine phosp iired for nuclear translo	uction of type I inte horylation sites nea	rferon in response ar the carboxyl
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. Au, W.C. et al. (1998) <i>J Biol Chem</i> 273, 29210-7. 4. Wathelet, M.G. et al. (1998) <i>Mol Cell</i> 1, 507-18. 5. Marié, I. et al. (1998) <i>EMBO J</i> 17, 6660-9. 6. Sato, M. et al. (2000) <i>Immunity</i> 13, 539-48. 7. Honda, K. et al. (2005) <i>Nature</i> 434, 772-7. 8. Colina, R. et al. (2008) <i>Nature</i> 452, 323-8. 9. Lin, R. et al. (2000) <i>J Biol Chem</i> 275, 34320-7. 10. Yang, H. et al. (2003) <i>J Biol Chem</i> 278, 15495-504. 11. Caillaud, A. et al. (2005) <i>J Biol Chem</i> 280, 17671-7.				

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 **W-S:** Simple Western™

Cross-Reactivity Key

H: Human

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