

IRF-3 (D9J5Q) Mouse mAb



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Applications: IHC-P, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 50-55	Source/Isotype: Mouse IgG1	UniProt ID: #Q14653	Entrez-Gene Id: 3661
Product Usage Information		Application Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry)				Dilution 1:400 1:400
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.				
		For a carrier free (BSA and azide free) version of this product see product #48932.				
Specificity/Sensitivity		IRF-3 (D9J5Q) Mouse mAb recognizes endogenous levels of total IRF-3 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to human IRF-3 protein.				
Background		Jak/Stat pathway to re infection (1). IRFs play development, cell gro IRF-1, IRF-2, IRF-9/ISG proteins share homol transcription through	egulate interferon (I y an important role owth, and susceptibi iF3y, IRF-3, IRF-4 (Pi logy in their amino- i interactions with p	rise a family of transcrip FN) and IFN-inducible go in pathogen defense, au lity to transformation. Tip/LSIRF/ICSAT), IRF-5, IR terminal DNA-binding do roteins that share similal consensus sequences (i	ene expression in r toimmunity, lymph he IRF family incluc F-6, IRF-7, and IRF-1 omains. IRF family i r DNA-binding mot	esponse to viral locyte des nine members: B/ICSBP. All IRF members regulate ifs, such as IFN-
		IRF-3 can inhibit cell growth and plays a critical role in controlling the expression of genes in the innate immune response (1-4). In unstimulated cells, IRF-3 is present in the cytoplasm. Viral infection results in phosphorylation of IRF-3 and leads to its translocation to the nucleus, where it activates promoters containing IRF-3-binding sites. Phosphorylation of IRF-3 occurs at a cluster of C-terminal Ser and Thr residues (between 385 and 405), leading to its association with the p300/CBP coactivator protein that promotes DNA binding and transcriptional activity (5). During infection, IRF-3 is likely activated through a pathway that includes activation of Toll-like receptors and a kinase complex that includes IKK£ and TBK1 (6,7). IRF-3 is phosphorylated at Ser396 following viral infection, expression of viral nucleocapsid, and double-stranded RNA treatment. These events likely play a role in activation of IRF-3 (8).				
Background Re	ferences	 Taniguchi, T. et al. (2001) Annu Rev Immunol 19, 623-55. Honda, K. and Taniguchi, T. (2006) Nat Rev Immunol 6, 644-58. Hiscott, J. et al. (1999) J Interferon Cytokine Res 19, 1-13. Kim, T.Y. et al. (2003) J Biol Chem 278, 15272-8. Yoneyama, M. et al. (2002) J Interferon Cytokine Res 22, 73-6. Fitzgerald, K.A. et al. (2003) Nat Immunol 4, 491-6. Kopp, E. and Medzhitov, R. (2003) Curr Opin Immunol 15, 396-401. Servant, M.J. et al. (2003) J Biol Chem 278, 9441-7. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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