IRF-3 (D83B9) Rabbit mAb



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orders@cellsignal.com

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cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, W-S, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 45-55	Source/Isotype: Rabbit IgG	UniProt ID: #Q14653	Entrez-Gene Id: 3661
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation			Dilution 1:1000 1:10 - 1:50 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.				
		For a carrier free (BSA and azide free) version of this product see product #26306.				
Specificity/Sensitivity		IRF-3 (D83B9) Rabbit mAb detects endogenous levels of total IRF-3 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxyl terminus of human IRF-3.				
Background		Jak/Stat pathway to re infection (1). IRFs play development, cell grow IRF-1, IRF-2, IRF-9/ISGI proteins share homolo transcription through	gulate interferon (I an important role wth, and susceptibi F3γ, IRF-3, IRF-4 (Pi ogy in their amino-i interactions with p	rise a family of transcrip FN) and IFN-inducible go in pathogen defense, au lity to transformation. T p/LSIRF/ICSAT), IRF-5, IR terminal DNA-binding do roteins that share simila I 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: b/ICSBP. All IRF nembers 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 carboxyl-terminal serine and threonine 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 of 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	eferences	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. Hiscott, J. et al. (1999) <i>J Interferon Cytokine Res</i> 19, 1-13. 4. Kim, T.Y. et al. (2003) <i>J Biol Chem</i> 278, 15272-8. 5. Yoneyama, M. et al. (2002) <i>J Interferon Cytokine Res</i> 22, 73-6. 6. Fitzgerald, K.A. et al. (2003) <i>Nat Immunol</i> 4, 491-6. 7. Kopp, E. and Medzhitov, R. (2003) <i>Curr Opin Immunol</i> 15, 396-401. 8. Servant, M.J. et al. (2003) <i>J Biol Chem</i> 278, 9441-7.				

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[™] **IP:** Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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