

IRF3Polyclonal Antibody

Catalog Number: E92172

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Amount:	100ul
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, ISGF3y/p48, 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). 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).
Species:	Rabbit
lsotype:	lgG
Storage/Stability:	Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide,
	50% glycerol, pH7.3.
Synonyms:	IRF-3; IRF3;
Immunogen:	Recombinant proteinof human IRF3
Purification:	Affinity purification
Reactivity:	HMR
Applications:	WB IHC
Molecular Weight:	49kDa
Swiss-Prot No. :	Q14653
Gene ID:	3661
References:	1. Taniguchi, T. et al. (2001) Annu Rev Immunol 19, 623-55. 2. Honda, K. and Taniguchi, T.
	(2006) Nat Rev Immunol 6, 644-58. 3. Hiscott, J. et al. (1999) J Interferon Cytokine Res 19,
	1-13. 4. Kim, T.Y. et al. (2003) J Biol Chem 278, 15272-8. 5. Yoneyama, M. et al. (2002) J
	Interferon Cytokine Res 22, 73-6. 6. Fitzgerald, K.A. et al. (2003) Nat Immunol 4, 491-6. 7.
	Kopp, E. and Medzhitov, R. (2003) Curr Opin Immunol 15, 396-401. 8. Servant, M.J. et al.
	(2003) J Biol Chem 278, 9441-7.

