

## **IRF-5 Antibody**



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

Applications: Re W, IP, IF-IC	eactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 60	Source/Isotype: Rabbit	UniProt ID: #Q13568	Entrez-Gene Id: 3663
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunofluorescence (	Immunocytochem	istry)		<b>Dilution</b> 1:1000 1:50 1:100
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		IRF-5 Antibody detects endogenous levels of total IRF-5 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxyl terminus of human IRF-5 protein. Antibodies were purified by protein A and peptide affinity chromatography.				
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).				
		IRF-5 is expressed in lymphoid tissues and peripheral blood lymphocytes and participates in the induction of type I interferon genes following viral infection (3). Activation of IRF-5 signaling is triggered by the toll-like receptor (TLR) pathway, including TLR7 and MyD88 (4,5). Genetic variants of IRF-5 have been associated with disorders where the IFN pathway is abnormally activated, such as systemic lupus erythematosus (6,7).				
Background References		<ol> <li>Taniguchi, T. et al. (2001) <i>Annu Rev Immunol</i> 19, 623-55.</li> <li>Honda, K. and Taniguchi, T. (2006) <i>Nat Rev Immunol</i> 6, 644-58.</li> <li>Barnes, B.J. et al. (2001) <i>J. Biol. Chem.</i> 276, 23382-23390.</li> <li>Takaoka, A. et al. (2005) <i>Nature</i> 434, 243-249.</li> <li>Schoenemeyer, A. et al. (2005) <i>J. Biol. Chem.</i> 280, 17005-17012.</li> <li>Sigurdsson, S. et al. (2005) <i>Am. J. Hum. Genet.</i> 76, 528-537.</li> <li>Graham, G. et al. (2006) <i>Nat. Genet.</i> 38, 550-555.</li> </ol>				
Species Reactivity		Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key		H: Human				
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