

#3257 Store at **-20°C**

IRF-5 Antibody

100 µl
 (10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

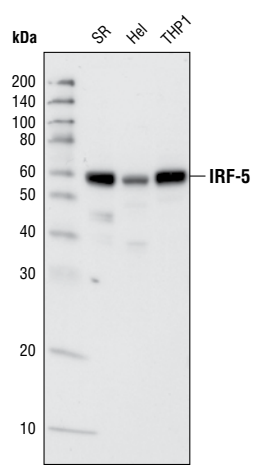
Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP, IF-IC Endogenous	H	60 kDa	Rabbit**

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, ISGF3γ/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).

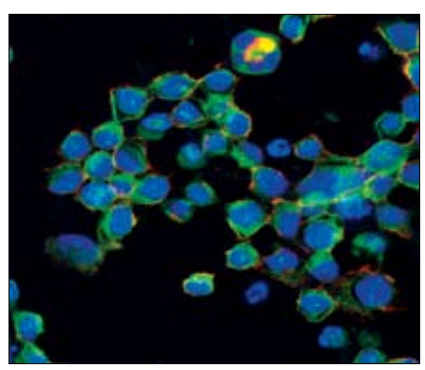
IRF-5 is expressed in lymphoid tissues and peripheral blood lymphocytes and participates in the induction of type I interferon genes following viral infection (3). Activation of IRF-5 signaling is triggered by the toll-like receptor (TLR) pathway, including TLR7 and MyD88 (4,5). Genetic variants of IRF-5 have been associated with disorders where the IFN pathway is abnormally activated, such as systemic lupus erythematosus (6,7).

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.



Western blot analysis of extracts from SR, HeL and THP-1 cell lines using IRF-5 Antibody.



Confocal immunofluorescent analysis of THP-1 cells using IRF-5 Antibody (green). Actin filaments have been labeled with Alexa Fluor® 555 phalloidin (red). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).

Entrez-Gene ID #3663
Swiss-Prot Acc. #Q13568

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at **-20°C**.
Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:50
Immunofluorescence (IF-IC)	1:100

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

Background 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) Barnes, B.J. et al. (2001) *J. Biol. Chem.* 276, 23382-23390.
- (4) Takaoka, A. et al. (2005) *Nature* 434, 243-249.
- (5) Schoenemeyer, A. et al. (2005) *J. Biol. Chem.* 280, 17005-17012.
- (6) Sigurdsson, S. et al. (2005) *Am. J. Hum. Genet.* 76, 528-537.
- (7) Graham, G. et al. (2006) *Nat. Genet.* 38, 550-555.

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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.