

**IRF-9 (D9I5H) Rabbit mAb**

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IF-IC	M	Endogenous	50	Rabbit IgG	#Q61179	16391

**Product Usage Information****Application**

Western Blotting  
Immunofluorescence (Immunocytochemistry)

**Dilution**

1:1000  
1:200

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/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 #74423.

**Specificity/Sensitivity**

IRF-9 (D9I5H) Rabbit mAb recognizes endogenous levels of total IRF-9 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro261 of mouse IRF-9 protein.

**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).

In response to type I interferons (e.g., IFN-α, IFN-β), interferon regulatory factor 9 (IRF-9, ISGF3γ) assembles into a protein complex with Stat1 and Stat2 and translocates to the nucleus where it induces transcription of interferon response genes by binding to ISREs (3,4). Expression of IRF-9 is also induced by type I interferons (5).

**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. Fu, X.Y. et al. (1990) *Proc Natl Acad Sci U S A* 87, 8555-9.
4. Qureshi, S.A. et al. (1995) *Proc Natl Acad Sci U S A* 92, 3829-33.
5. Levy, D.E. et al. (1990) *EMBO J* 9, 1105-11.

**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 **IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key**

**M:** Mouse

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