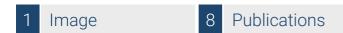


# Datasheet for ABIN967285

# anti-IRF3 antibody (AA 56-427)





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Quantity:	0.1 mg
Target:	IRF3
Binding Specificity:	AA 56-427
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IRF3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Blocking Antibody (Inhibition)

## **Product Details**

Immunogen:	Human IRF-3 recombinant fusion protein
Clone:	SL-12-1
Isotype:	lgG1
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
	2. Please refer to us for technical protocols.
	3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide
	compounds in running water before discarding to avoid accumulation of potentially explosive
	deposits in plumbing.
Purification:	Purified from tissue culture supernatant or ascites by affinity chromatography.

# **Target Details**

Target:	IRF3
Alternative Name:	IRF-3 (IRF3 Products)
Background:	Viral infection in mammals can lead to the induction of multiple pathways as part of the host defense mechanism. One of the major pathways activated is the JAK-STAT pathway by various interferons (IFNalpha and IFNbeta). These IFNs exert their influence via transcriptional activation of specific target genes involved in antiviral defense, for example the chemokine ISG15 gene or the major histocompatibility complex class I and II molecules. These genes in turn are regulated by the JAK-STAT signaling pathway and through interferon regulatory factors (IRFs). IRFs are a family of transcription factors that possess a broad range of activities. IRF-3 is one of nine members which all share a common DNA binding domain which binds to an IFN stimulated response element (ISRE) found in the majority of IFN-inducible promoters. The IRF-3 gene expresses a 50 kDa protein which is constitutively expressed in all tissues. The protein undergoes post-translational modification as well as dimerization and is translocated from the cytoplasm to the nucleus upon viral infection or exposure to dsRNA. The antibody recognizes human IRF-3. A purified recombinant IRF-3 fusion protein corresponding to human IRF-3 (amino acids 56-427) was used as the immunogen.
Molecular Weight:	50 kDa
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Hepatitis C, Toll-Like Receptors Cascades
Application Details	
Application Notes:	Clone SL-12.1 can be used for western blot analysis (0.5-2.0 µg/ml). Other reported application include immunoprecipitation and immunofluorescence microscopy. The antibody will recognize both the nuclear and cytoplasmic forms of IRF-3 and can block IRF-3 DNA binding. Jurkat cells are recommended as a positive control (Cat, No. ABIN968537).
Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	0.5 mg/ml
Buffer:	Aqueous buffered solution.

### Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4°C

#### **Publications**

Product cited in:

Hiscott, Pitha, Genin, Nguyen, Heylbroeck, Mamane, Algarte, Lin: "Triggering the interferon response: the role of IRF-3 transcription factor." in: **Journal of interferon & cytokine research:** the official journal of the International Society for Interferon and Cytokine Research, Vol. 19, Issue 1, pp. 1-13, (1999) (PubMed).

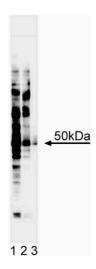
Mamane, Heylbroeck, Génin, Algarté, Servant, LePage, DeLuca, Kwon, Lin, Hiscott: "Interferon regulatory factors: the next generation." in: **Gene**, Vol. 237, Issue 1, pp. 1-14, (1999) (PubMed).

Ronco, Karpova, Vidal, Howley: "Human papillomavirus 16 E6 oncoprotein binds to interferon regulatory factor-3 and inhibits its transcriptional activity." in: **Genes & development**, Vol. 12, Issue 13, pp. 2061-72, (1998) (PubMed).

Wathelet, Lin, Parekh, Ronco, Howley, Maniatis: "Virus infection induces the assembly of coordinately activated transcription factors on the IFN-beta enhancer in vivo." in: **Molecular cell**, Vol. 1, Issue 4, pp. 507-18, (1998) (PubMed).

Au, Moore, Lowther, Juang, Pitha: "Identification of a member of the interferon regulatory factor family that binds to the interferon-stimulated response element and activates expression of interferon-induced genes." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 92, Issue 25, pp. 11657-61, (1996) (PubMed).

There are more publications referencing this product on: Product page



## **Western Blotting**

**Image 1.** Western blot analysis of IRF-3. Lysates from Jurkat cells were probed with anti-human IRF-3 (clone SL-12.1, ABIN967285) at concentrations of 5.0 (lane 1), 2.0 (lane 2), and 0.5  $\mu$ g/ml (lane 3). IRF-3 is identified at ~50 kDa.