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Datasheet for ABIN5557374

## anti-IRF1 antibody

### 3 Images

#### Overview

Quantity:	100 µL
Target:	IRF1
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This IRF1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc))

#### Product Details

Immunogen:	Recombinant human IRF1 protein, around C-terminal 100aa.
Clone:	3G7
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Purified by Protein A.

#### Target Details

Target:	IRF1
Alternative Name:	IRF1 ( <a href="#">IRF1 Products</a> )

## Target Details

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Background:	<p>Synonyms: Interferon regulatory factor 1, IRF1</p> <p>Background: Transcriptional regulator which displays a remarkable functional diversity in the regulation of cellular responses. These include the regulation of IFN and IFN-inducible genes, host response to viral and bacterial infections, regulation of many genes expressed during hematopoiesis, inflammation, immune responses and cell proliferation and differentiation, regulation of the cell cycle and induction of growth arrest and programmed cell death following DNA damage. Stimulates both innate and acquired immune responses through the activation of specific target genes and can act as a transcriptional activator and repressor regulating target genes by binding to an interferon-stimulated response element (ISRE) in their promoters. Its target genes for transcriptional activation activity include: genes involved in anti-viral response, such as IFN-alpha/beta, DDX58/RIG-I, TNFSF10/TRAIL, OAS1/2, PIAS1/GBP, EIF2AK2/PKR and RSAD2/viperin, antibacterial response, such as NOS2/INOS, anti-proliferative response, such as p53/TP53, LOX and CDKN1A, apoptosis, such as BBC3/PUMA, CASP1, CASP7 and CASP8, immune response, such as IL7, IL12A/B and IL15, PTGS2/COX2 and CYBB, DNA damage responses and DNA repair, such as POLQ/POLH, MHC class I expression, such as TAP1, PSMB9/LMP2, PSME1/PA28A, PSME2/PA28B and B2M and MHC class II expression, such as CIITA. Represses genes involved in anti-proliferative response, such as BIRC5/survivin, CCNB1, CCNE1, CDK1, CDK2 and CDK4 and in immune response, such as FOXP3, IL4, ANXA2 and TLR4. Stimulates p53/TP53-dependent transcription through enhanced recruitment of EP300 leading to increased acetylation of p53/TP53. Plays an important role in immune response directly affecting NK maturation and activity, macrophage production of IL12, Th1 development and maturation of CD8+ T-cells. Also implicated in the differentiation and maturation of dendritic cells and in the suppression of regulatory T (Treg) cells development. Acts as a tumor suppressor and plays a role not only in antagonism of tumor cell growth but also in stimulating an immune response against tumor cells.</p>
Gene ID:	3659
UniProt:	<a href="#">P10914</a>
Pathways:	<a href="#">Interferon-gamma Pathway</a> , <a href="#">Response to Growth Hormone Stimulus</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Hepatitis C</a> , <a href="#">Autophagy</a>

## Application Details

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Application Notes:	WB 1:300-5000
	FCM 1:20-100
	IHC-P 1:200-400

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## Application Details

IF(IHC-P) 1:50-200

IF(ICC) 1:50-200

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 1xTBS (pH 7.4), 1 % BSA, 40 % Glycerol and 0.05 % Sodium Azide.

Preservative: ProClin

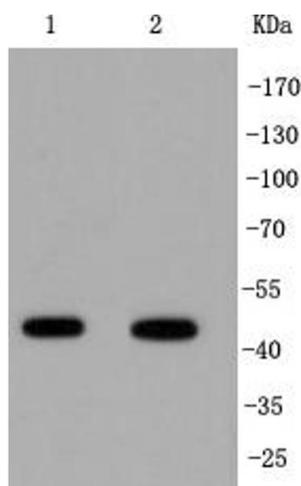
Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

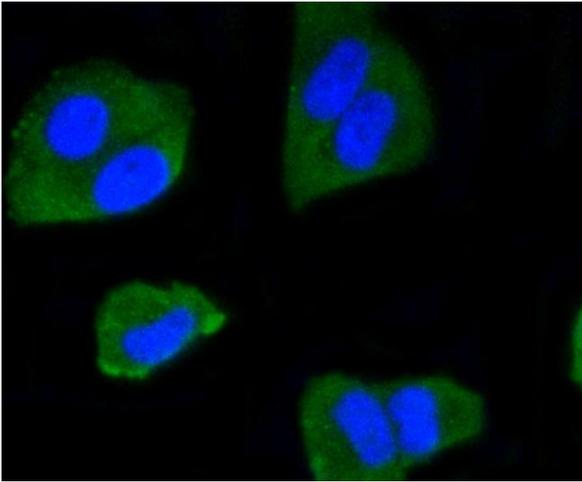
Expiry Date: 12 months

## Images



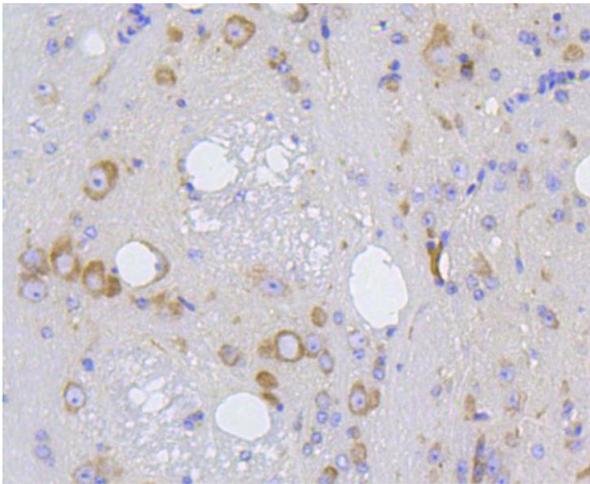
### Western Blotting

**Image 1.** Lane 1: PC-12 Cell lysates, Lane 2: Jurkat Cell lysates, probed with IRF1 (3G7) Monoclonal Antibody at 1:1000 overnight at 4°C. Followed by a conjugated secondary antibody.



### Immunofluorescence (Cultured Cells)

**Image 2.** HeLa cells were fixed in paraformaldehyde, permeabilized with 0.25% Triton X100/PBS and stained with IRF1 (3G7) Monoclonal Antibody at 1:200 and incubated overnight at 4C, followed by secondary antibody incubation, DAPI staining of the nuclei and detection.



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Paraformaldehyde-fixed, paraffin embedded Mouse brain, Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes, Blocking buffer at 37°C for 20min, Antibody incubation with IRF1 (3G7) Monoclonal Antibody at 1:50 overnight at 4°C, followed by a conjugated secondary and DAB staining.