

# Human IRF3 antibody

Catalog Number: AIR0718

## PRODUCT INFORMATION

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**Catalog number**

AIR0718

**Clone No.**

3F10

**Product type**

Monoclonal Antibody

**UnitProt No.**

Q14653

**NCBI Accession No.**

NP\_001562

**Alternative Names**

IRF3, Interferon regulatory factor-3, IRF-3, Interferon regulatory factor 3, IRF 3

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human IRF3(108-166aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-G affinity chromatography

**Application**

ELISA, WB, ICC/IF, FACS

**Usage**

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

Members of the Interferon regulatory factor (IRF) family regulate gene expression critical to immune response, hemopoiesis, and proliferation. IRF-3 is a member of the IRF family, and is distinct from other family members. Its transcriptional activity is regulated solely by posttranslational modifications. It plays a crucial role in activation of innate immunity and inflammation in response to viral infection.

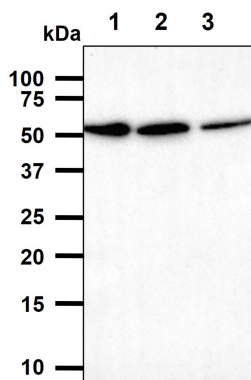
### General References

DeFilippis VR et al.,(2006) J Virol 80(2):1032-1037.

Pietila TE et al.,(2007) J Immunol 178(1):253-261.

## DATA

### Western blot analysis (WB)



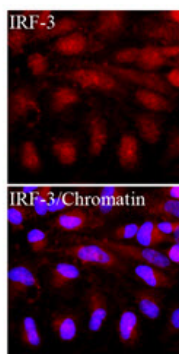
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human IRF3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: MCF7 cell lysate

Lane 2.: K562 cell lysate

Lane 3.: Jurkat cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)



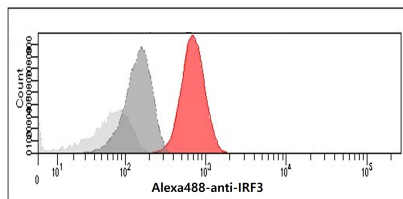
ICC/IF analysis of human HeLa cells stained with IRF3 (1:500) with Texas-Red and Hoechst 33342 (Blue) for nucleus staining.

### Flow cytometry (FACS)

## Human IRF3 antibody

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Flow cytometry analysis of IRF3 in MCF7 cells. The cell was stained with AIR0718 at 2-5ug for  $1 \times 10^6$  cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).



Flow cytometry analysis of IRF3 in Jurkat cells. The cell was stained with AIR0718 at 2-5ug for  $1 \times 10^6$  cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

