

# Human IRF5 antibody

Catalog Number: AIR0611

## PRODUCT INFORMATION

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**Catalog number**

AIR0611

**Clone No.**

10T1

**Product type**

Monoclonal Antibody

**UnitProt No.**

Q13568

**NCBI Accession No.**

NP\_116032.1

**Alternative Names**

interferon regulatory factor 5, irf5

## 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 IRF-5 (176-240aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF, IHC, FACS

**Usage**

The antibody has been tested by ELISA, Western blot, ICC/IF, FACS and IHC 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

Interferon regulatory factor 5 (IRF-5) is a member of IRF family, which plays a critical role in the regulation of genes induced by viral infection, immunostimulation and cell growth regulation. The expression of IRF-5 is limited to lymphoid organs, dendritic cells, and peripheral blood lymphocytes, but is not expressed in numerous leukemia and lymphoma cell lines. Three IRFs (IRF-3, IRF-5, IRF-7) function as direct transducers of virus-mediated signaling and play a critical role in the expression of type I interferon genes and some chemokines.

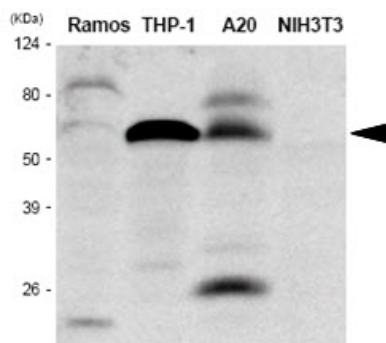
### General References

Mario B., et al, (2007) J. Virology 81(9):4473-4481.

Ning S., et al, (2005) J. Virology 79:11671-11676.

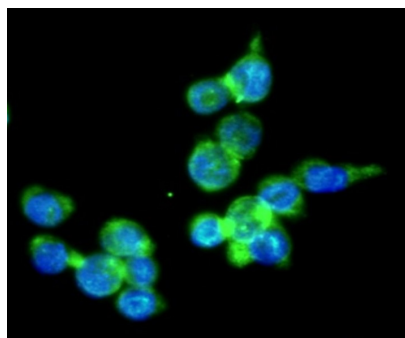
## DATA

### Western blot analysis (WB)



The cell lysates of Ramos, THP-1, A20 and NIH3T3 were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human IRF-5 antibody (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

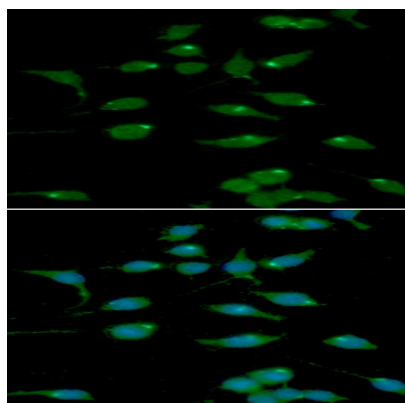
### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of IRF-5 in THP-1 cells. The cell was stained with AIR0611 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

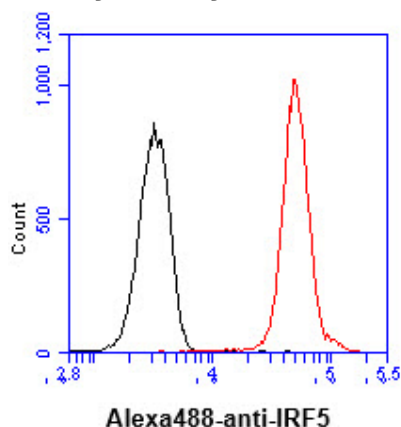
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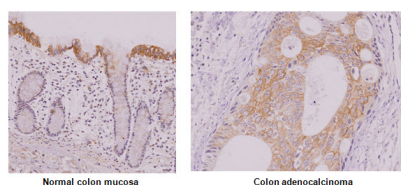
ICC/IF analysis of IRF-5 in Raw264.7 cells. The cell was stained with AIR0611 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

## Flow cytometry (FACS)



Flow cytometry analysis of IRF5 in THP-1 cell line, staining at 2-5ug for  $1 \times 10^6$  cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

## Immunohistochemistry (IHC)



Paraffin embedded sections of normal colon mucosa and colon adenocarcinoma tissue were incubated with anti-human IRF-5 antibody (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB).