

Human IRF5 antibody

Catalog Number: AIR0611

PRODUCT INFORMATION

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

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.

Human IRF5 antibody

Catalog Number: AIR0611

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.

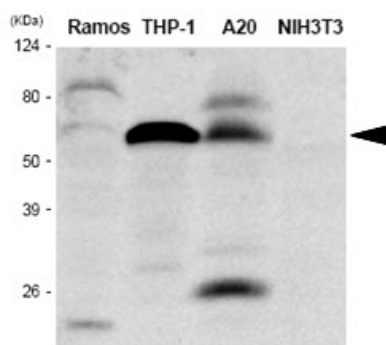
General References

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

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

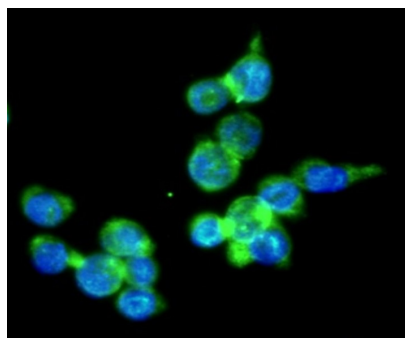
DATA

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.

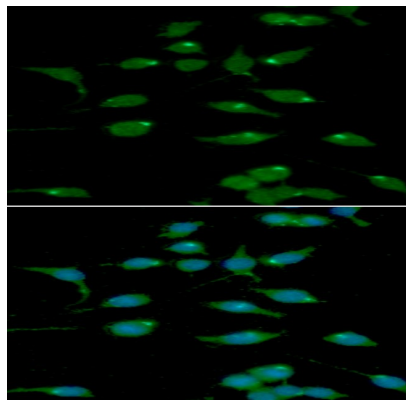
Immunocytochemistry/Immunofluorescence (ICC/IF)



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).

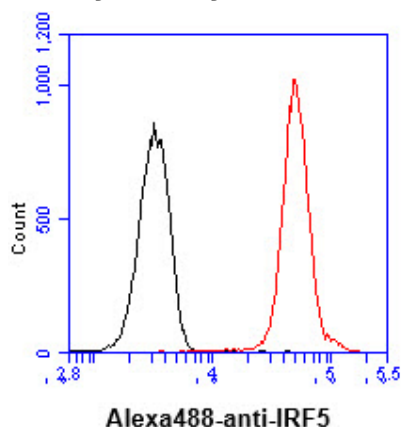
Human IRF5 antibody

Catalog Number: AIR0611



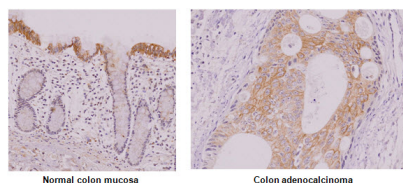
ICC/IF analysis of IRF-5 in Raw264.7 cells. The cell was stained with AIR0611 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of IRF5 in THP-1 cell line, staining at 2-5ug for 1×10^6 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).