

Human IRF5 antibody

Catalog Number: ATGA0518

PRODUCT INFORMATION

Catalog number

ATGA0518

Clone No.

10T1

Product type

Monoclonal Antibody

UnitProt No.

Q13568

NCBI Accession No.

NP_116032.1

Alternative Names

interferon regulatory factor 5, irf5

Additional Information

This product was produced from tissue culture supernatant.

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

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

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

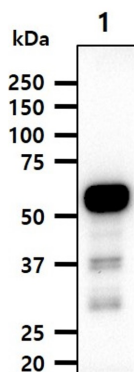
Mario B. et al. (2007) J. Virology 81(9):4473-4481.

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

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

DATA

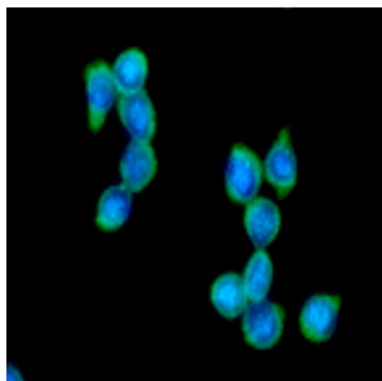
Western blot analysis (WB)



The cell lysate(40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human IRF-5 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: THP-1 cell lysate

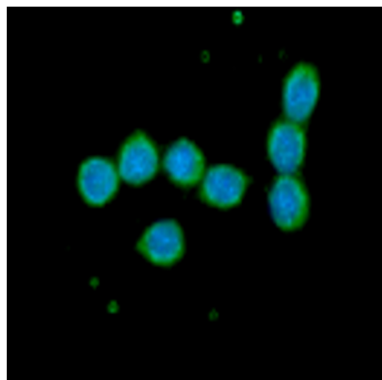
Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of IRF-5 in THP-1 cells. The cell was stained with ATGA0518 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

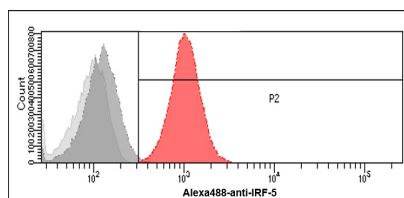
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ICC/IF analysis of IRF-5 in Raw264.7 cells. The cell was stained with ATGA0518 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of IRF5 in THP-1 cells. The cell was stained with ATGA0518 at 2-5ug for 1×10^6 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).