

# Human NFATC1 antibody

Catalog Number: ATGA0133

## PRODUCT INFORMATION

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**Catalog number**

ATGA0133

**Clone No.**

AT1C3

**Product type**

Monoclonal Antibody

**UnitProt No.**

O95644

**NCBI Accession No.**

NP\_765978

**Alternative Names**

nuclear factor of activated T-cells, cytosolic component 1 isoform A, NF-ATC, NFATc, NFAT2

## 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 NFATc1 (428-716aa) purified from E. coli

**Isotype**

IgG2a 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 to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

**Storage**

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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

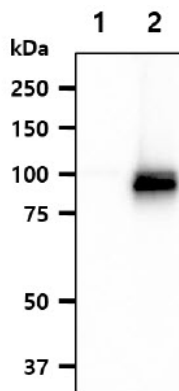
Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 (NFATc1) is a component of the nuclear factor of activated T cells DNA-binding transcription complex which consists of at least two components: a preexisting cytosolic component that translocates to the nucleus upon T cell receptor (TCR) stimulation, and an inducible nuclear component. This protein plays a main role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2 or IL-4 gene transcription and functions as a major molecular target for the immunosuppressive drugs such as cyclosporine A. NFATc1 is expressed in most human primary lymphocytes and mature human T- and B-cell neoplasms.

### General References

- Akimzhanov A, et al., (2008) *Am J Pathol* 172(1):215-224.  
Asagiri M, et al., (2005) *J Exp Med* 202(9):1261-1269.  
Rao A, et al., (1997) *Annu Rev Immunol* 15:707-747.

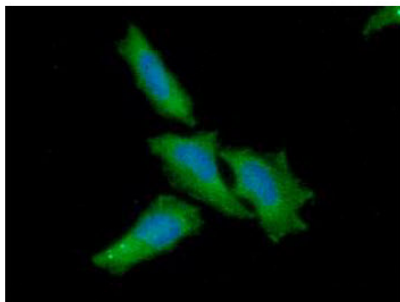
## DATA

### Western blot analysis (WB)



The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NFATC1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.  
Lane 1.: 293T cell lysate  
Lane 3.: NFATC1 Transfected 293T cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

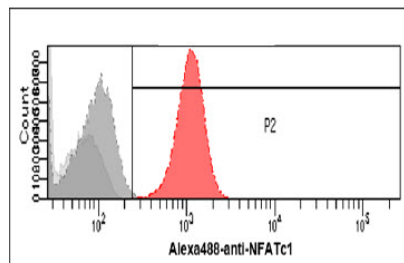


ICC/IF analysis of NFATC1 in HeLa cells. The cell was stained with ATGA0133 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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### Flow cytometry (FACS)



Flow cytometry analysis of NFATC1 in Jurkat cells. The cell was stained with ATGA0133 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).