

## ARG56977 anti-NFATc1 antibody [1C3]

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [1C3] recognizes NFATc1
Tested Reactivity	Hu
Tested Application	FACS
Host	Mouse
Clonality	Monoclonal
Clone	1C3
Isotype	IgG2a, kappa
Target Name	NFATc1
Species	Human
Immunogen	Recombinant fragment around aa. 428-716 of Human NFATc1.
Conjugation	Un-conjugated
Alternate Names	NFATc1; NFAT transcription complex cytosolic component; NFAT2; NF-ATC; NF-ATc; NF-ATc1; Nuclear factor of activated T-cells, cytoplasmic 1; NFATc; NF-ATc1.2

### Application Instructions

Application table	Application	Dilution
	FACS	2-5ug for 1x10 <sup>6</sup> cells
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

### Database links

[GeneID: 4772 Human](#)

[Swiss-port # O95644 Human](#)

### Gene Symbol

NFATC1

### Gene Full Name

nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1

### Background

The product of this gene is a component of the nuclear factor of activated T cells DNA-binding transcription complex. This complex 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. Proteins belonging to this family of transcription factors play a central role in inducible gene transcription during immune response. The product of this gene is an inducible nuclear component. It functions as a major molecular target for the immunosuppressive drugs such as cyclosporin A. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. Different isoforms of this protein may regulate inducible expression of different cytokine genes. [provided by RefSeq, Jul 2013]

### Function

Plays a role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2 or IL-4 gene transcription. Also controls gene expression in embryonic cardiac cells. Could regulate not only the activation and proliferation but also the differentiation and programmed death of T-lymphocytes as well as lymphoid and non-lymphoid cells. [UniProt]

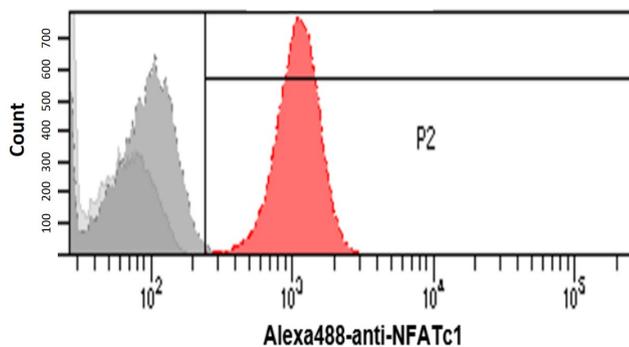
### Calculated Mw

101 kDa

### PTM

Phosphorylated by NFATC-kinase and GSK3B; phosphorylation induces NFATC1 nuclear exit and dephosphorylation by calcineurin promotes nuclear import. Phosphorylation by PKA and DYRK2 negatively modulates nuclear accumulation, and promotes subsequent phosphorylation by GSK3B or casein kinase 1.

## Images



ARG56977 anti-NFATc1 antibody [1C3] FACS image

Flow Cytometry: Jurkat cells were stained with ARG56977 anti-NFATc1 antibody [1C3] at 2-5  $\mu\text{g} / 10^6$  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).