

# NFAT2 Antibody / NFATC1 (isoforms A / B / C)

Catalog No: tcna7483



## Available Sizes

**Size:** 100ug



## Specifications

### Application:

WB, FACS, Direct ELISA

### Species Reactivity:

Human, Mouse, Rat

### Host Species:

Rabbit

### Immunogen / Amino acids:

A recombinant human protein corresponding to amino acids Q589-K652 (specific to isoforms A/B/C) was used as the immunogen for the NFAT2 antibody.

### Conjugation:

Antigen affinity purified

### Clonality:

Polyclonal

### Isotype:

Rabbit IgG

### Form:

Lyophilized powder

### Storage Buffer:

Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide

### Recommended Dilution:

Western Blot: 0.5-1ug/ml

FACS: 1-3ug/10<sup>6</sup> cells

Direct ELISA (human recombinant protein: 0.1-0.5ug/ml (BSA-free formulation available))Optimal dilution of the NFAT2 antibody should be determined by the researcher.

#### Storage Instruction:

After reconstitution, the NFAT2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

#### SwissProt:

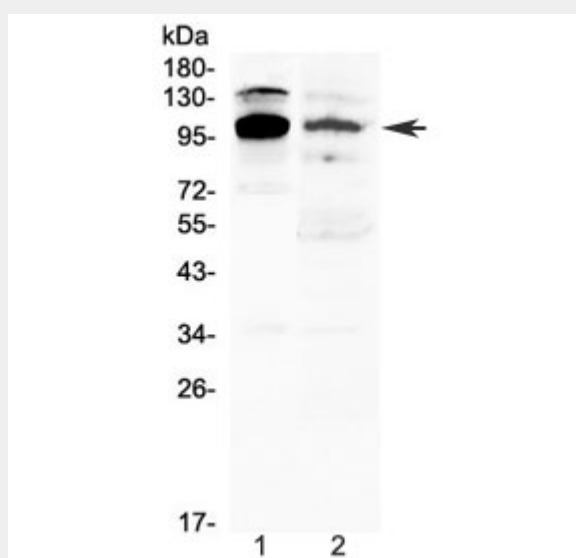
O95644

## References

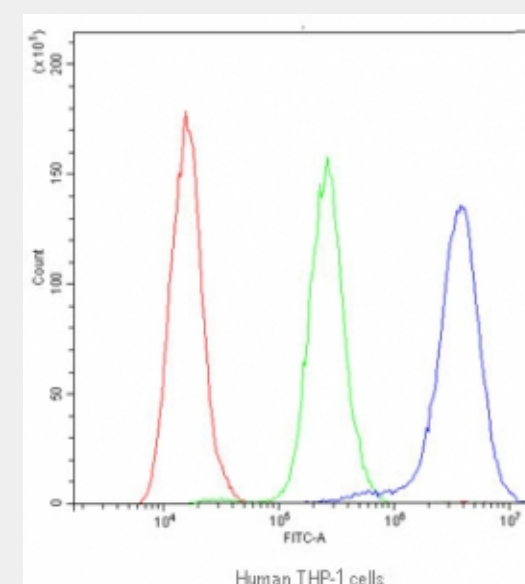
Antigen affinity purified

## Product Description

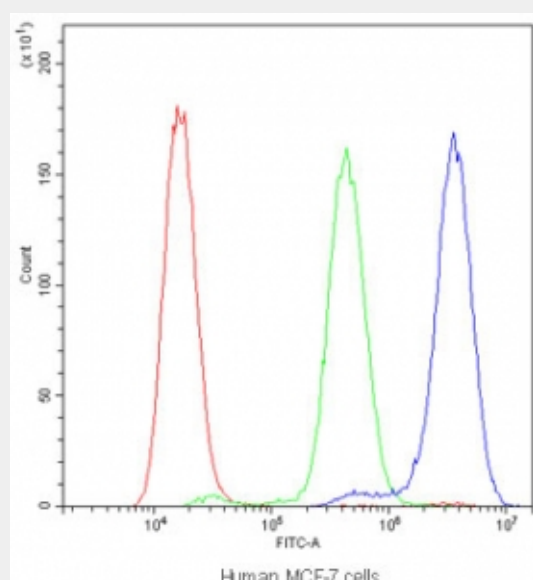
NFATC1 (Nuclear factor of activated T-cells, cytoplasmic 1), also known as NFATC or NFAT2, is a protein that in humans is encoded by the NFATC1 gene. And it is also a component of the nuclear factor of activated T cells DNA-binding transcription complex. The NFATC1 gene is mapped on 18q23. Proteins belonging to this family of transcription factors play a central role in inducible gene transcription during immune response. NFATC1 was not detected in brain, liver, or kidney. NFATC1 is an inducible nuclear component which functions as a major molecular target for the immunosuppressive drugs such as cyclosporin A. The solution structure of the binary complex formed between the core DNA-binding domain of human NFATC1 and the 12-bp oligonucleotide duplex containing the ARRE2 DNA site from the IL2 promoter. Nfatc1 was expressed exclusively in mouse hair follicle stem cells, and using gain- and loss-of-function approaches, and Nfatc1 inhibited stem cell activation.



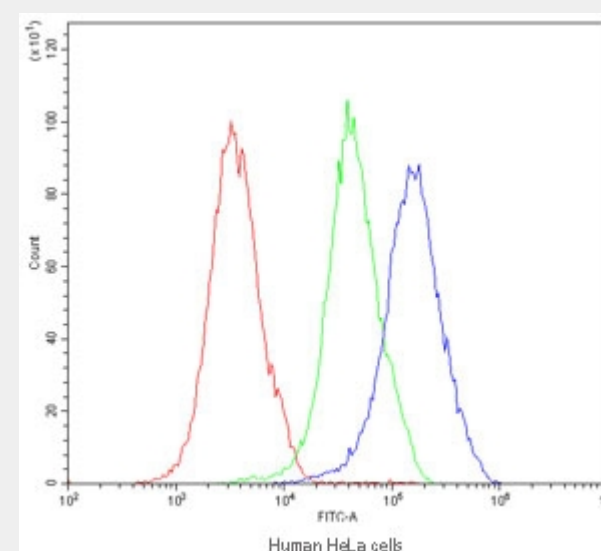
Western blot testing of 1) mouse thymus and 2) human 22RV1 lysate with NFAT2 antibody at 0.5ug/ml. Predicted molecular weight: ~77 kDa (isoform A), ~88 kDa (isoform B), ~101 kDa (isoform C).



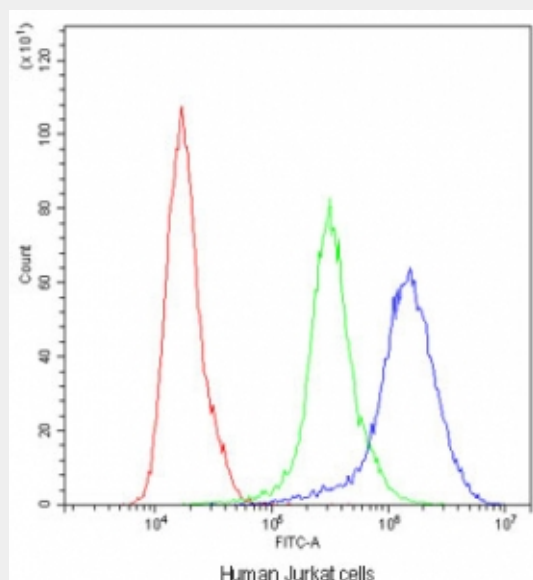
Flow cytometry testing of human THP-1 cells with NFAT2 antibody at 1ug/10<sup>6</sup> cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=NFAT2 antibody.



Flow cytometry testing of human MCF-7 cells with NFAT2 antibody at  $1\mu\text{g}/10^6$  cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=NFAT2 antibody.



Flow cytometry testing of human HeLa cells with NFAT2 antibody at  $1\mu\text{g}/10^6$  cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=NFAT2 antibody.



Flow cytometry testing of human Jurkat cells with NFAT2 antibody at  $1\mu\text{g}/10^6$  cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=NFAT2 antibody.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!