

Anti-NFAT1 Antibody (4I426)

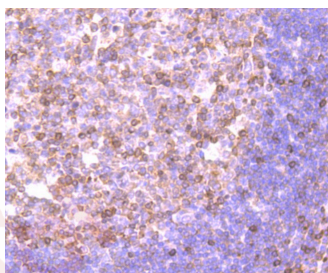
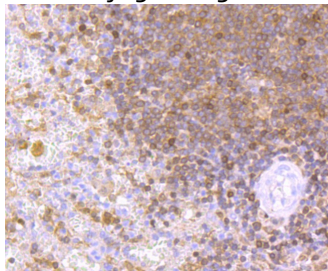
Product Details

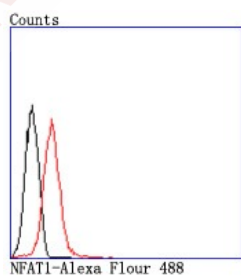
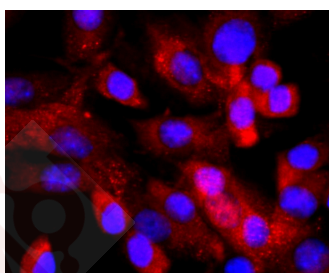
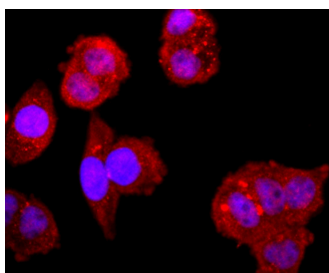
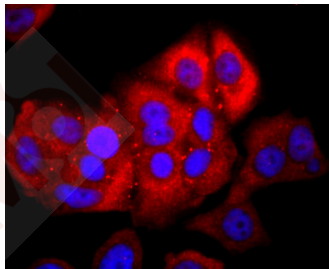
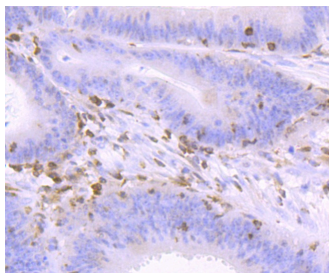
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 135 kDa.
Clone:	4I426
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-NFAT1 antibody. Counter stained with hematoxylin.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-NFAT1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-NFAT1 antibody. Counter stained with hematoxylin.
4. ICC staining NFAT1 in MCF-7 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining NFAT1 in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining NFAT1 in SHG-44 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. Flow cytometric analysis of Jurkat cells with NFAT1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.





Application: FCM, ICC/IF, IHC, WB

Recommended WB: 1:500; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q13469
Synonyms:	cytoplasmic 2;Nuclear factor of activated T cells cytoplasmic calcineurin dependent 2;NF-ATp;NF-ATc2;NFAT pre existing subunit;preexisting component;NFAT transcription complex;AI607462;Preexisting nuclear factor of activated T cells 2;NFATc2;T-cell transcription factor NFAT1;T cell transcription factor NFAT 1;NFAT pre-existing subunit;KIAA0611;NFAC2_HUMAN;NFATp;Nuclear factor of activated T cells pre-existing component;Nuclear factor of activated T cells;NFAT1-D;Nuclear factor of activated T cells cytoplasmic 2;NF ATc2;NF ATp;NFAT 1;Nuclear factor of activated T-cells;NFAT1

Research Background

The NFAT (nuclear factor of activated T cells) family of transcription factors regulates cytokine expression in T cells. Members of the family include NFATc1 (NFATc), NFATc2 (NFATp), NFATn, NFATc3 (NFAT4, NFATx) and NFATc4 (NFAT3). Recognition of antigen by the T cell receptor (TCR) eventually activates the calcium-dependent protein phosphatase calcineurin. Once activated, calcineurin stimulates the translocation of NFATc1 (cytoplasmic) from the cytoplasm to the nucleus where it associates with NFATn (nuclear). Like NFATc1, NFATc2 resides in the cytoplasm and translocates to the nucleus subsequent to activation of calcineurin. Once in the nucleus, NFATc2 synergizes with AP-1 transcription factors to initiate transcription of cytokine genes. NFATc3 and NFATc4 share 65% sequence identity with other members of the NFAT family. They are similar to NFATc2 in that they also synergize with the AP-1 family of proteins.

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