

NFAT1 Rabbit mAb

Catalog No: #49526

Package Size: #49526-1 50ul #49526-2 100ul

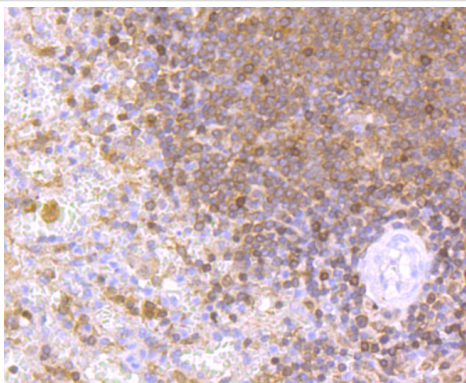
Description

Product Name	NFAT1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	JA11-08
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	AI607462 antibody cytoplasmic 2 antibody KIAA0611 antibody NF ATc2 antibody NF ATp antibody NF-ATc2 antibody NF-ATp antibody NFAC2_HUMAN antibody NFAT 1 antibody NFAT pre existing subunit antibody NFAT pre-existing subunit antibody NFAT transcription complex, preexisting component antibody NFAT1 antibody NFAT1-D antibody NFATc2 antibody NFATp antibody Nuclear factor of activated T cells cytoplasmic 2 antibody Nuclear factor of activated T cells cytoplasmic calcineurin dependent 2 antibody Nuclear factor of activated T cells pre-existing component antibody Nuclear factor of activated T cells, preexisting component antibody Nuclear factor of activated T-cells antibody Preexisting nuclear factor of activated T cells 2 antibody T cell transcription factor NFAT 1 antibody T-cell transcription factor NFAT1 antibody
Accession No.	Swiss-Prot#:Q13469
Calculated MW	135 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

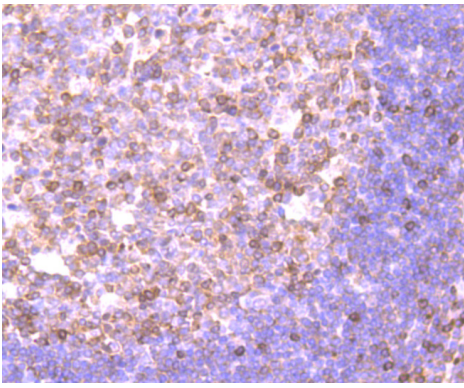
Application Details

WB: 1:500 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

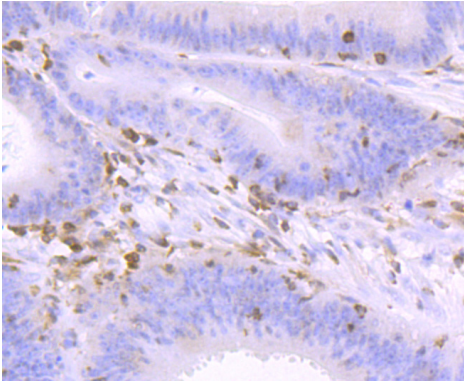
Images



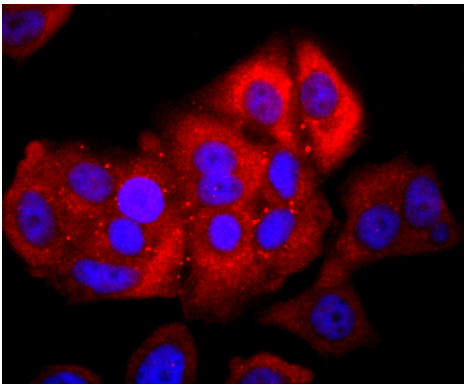
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-NFAT1 antibody. Counter stained with hematoxylin.



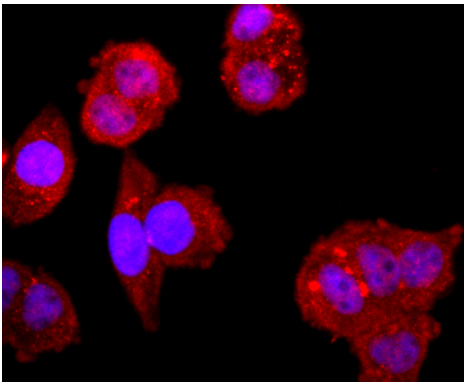
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-NFAT1 antibody. Counter stained with hematoxylin.



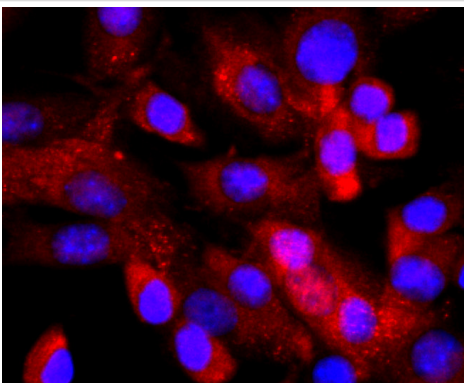
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-NFAT1 antibody. Counter stained with hematoxylin.



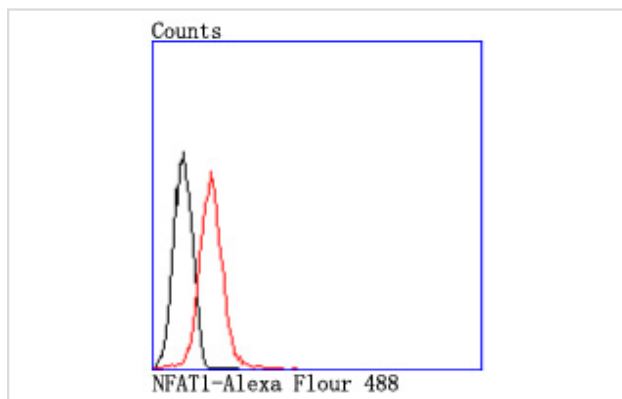
ICC staining NFAT1 in MCF-7 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



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.



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.



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.

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.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.