

Rabbit NFAT2 Polyclonal Antibody | anti-NFAT2 antibody

Anti-NFAT2 Picoband Antibody

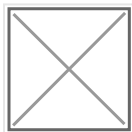
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124564	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, Immunocytochemistry, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

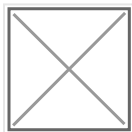
NFAT2; Polyclonal Antibody; Anti-NFAT2 Picoband Antibody; Nuclear factor of activated T-cells; cytoplasmic 1; NF-ATc1; NFATc1; NFAT transcription complex cytosolic component; NF-ATc; NFATc; NFATC1; NFATC; anti-NFAT2 antibody

PRODUCT SPECIFICATIONS

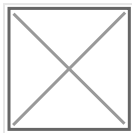
Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	353
Applicable Applications for anti-NFAT2 antibody	WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E Coli-derived human NFAT2 recombinant protein (Position: Q589-K652).
Subcellular Localization	Cytoplasm
Tissue Specificity	Expressed in thymus, peripheral leukocytes as T-cells and spleen. Isoforms A are preferentially expressed in effector T-cells (thymus and peripheral leukocytes) whereas isoforms B and isoforms C are preferentially expressed in naive T- cells (spleen). Isoforms B are expressed in naive T-cells after first antigen exposure and isoforms A are expressed in effector T- cells after second antigen exposure. Isoforms IA are widely expressed but not detected in liver nor pancreas, neural expression is strongest in corpus callosum. Isoforms IB are expressed mostly in muscle, cerebellum, placenta and thymus, neural expression in fetal and adult brain, strongest in corpus callosum.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



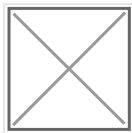
FCM/FACS (Flow Cytometry)
Figure 5. Flow Cytometry analysis of Jurkat cells using anti-NFATC1 antibody (AAA124564).Overlay histogram showing Jurkat cells stained with AAA124564 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NFATC1 Antibody (AAA124564,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)
Figure 4. Flow Cytometry analysis of MCF-7 cells using anti-NFATC1 antibody (AAA124564).Overlay histogram showing MCF-7 cells stained with AAA124564 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NFATC1 Antibody (AAA124564,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of THP-1 cells using anti-NFATC1 antibody (AAA124564).Overlay histogram showing THP-1 cells stained with AAA124564 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NFATC1 Antibody (AAA124564,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of Hela cells using anti-NFATC1 antibody (AAA124564).Overlay histogram showing Hela cells stained with AAA124564 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NFATC1 Antibody (AAA124564,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of NFAT2 using anti-NFAT2 antibody (AAA124564).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: mouse thymus tissue lysates,Lane 2: human 22RV1 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NFAT2 antigen affinity purified polyclonal antibody at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NFAT2 at approximately 101KD. The expected band size for NFAT2 is at 101KD.

ADDITIONAL INFORMATION

Related Product Information for anti-NFAT2 antibody	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. Protein 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 (PubMed: 10358178). Required for osteoclastogenesis and regulates many genes important for osteoclast differentiation and function (By similarity).
--	--

Product Categories/Family for anti-NFAT2 antibody	Immunology; Adaptive Immunity; T Cells; NON-CD; Signal Transduction; Signaling Pathway; Nuclear Signaling; nfats; Epigenetics and Nuclear Signaling; Transcription; Other Factors; Nuclear Signaling Pathways; Cardiovascular; Heart; Cardiogenesis; Transcript
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	522021835
NCBI GeneID	4772
NCBI Accession #	NP_001265598.1
NCBI GenBank Nucleotide #	NM_001278669.1
UniProt Accession #	O95644; Q12865; Q15793; Q2M1S3; B5B2M4; B5B2M5; B5B2M6; B5B2M7; B5B2M8; B5B2M9; B5B2N1
Molecular Weight	38,626 Da
NCBI Official Full Name	nuclear factor of activated T-cells, cytoplasmic 1 isoform F
NCBI Official Synonym Full Names	nuclear factor of activated T cells 1
NCBI Official Symbol	NFATC1
NCBI Official Synonym Symbols	NFAT2; NFATc; NF-ATC; NF-ATc1.2
NCBI Protein Information	nuclear factor of activated T-cells, cytoplasmic 1
UniProt Protein Name	Nuclear factor of activated T-cells, cytoplasmic 1
UniProt Gene Name	NFATC1
UniProt Synonym Gene Names	NFAT2; NFATC; NF-ATc1; NFATc1; NF-ATc; NFATc

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
 Online datasheet: <https://stage.aaabiotech.com/polyclonal/nfat2-antibody-western-blot-immunocytochemistry-immunohistochemistry-flow-cytometry-elisa/124564>