

Rabbit NFATC4 Polyclonal Antibody | anti-NFATC4 antibody

Anti-NFATC4 Picoband Antibody

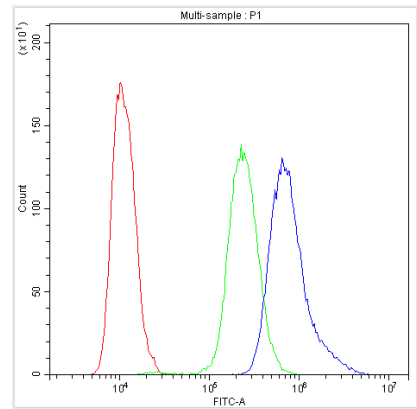
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124691	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, ELISA

PRODUCT SYNONYMS

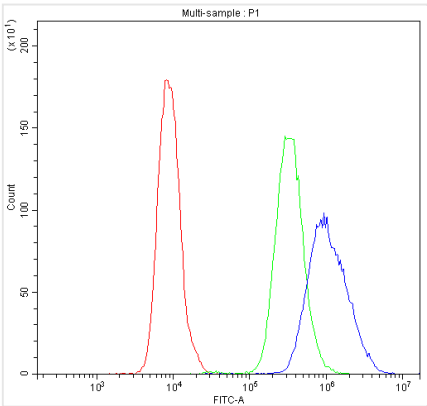
NFATC4; Polyclonal Antibody; Anti-NFATC4 Picoband Antibody; Nuclear factor of activated T-cells; cytoplasmic 4; NF-ATc4; NFATc4; T-cell transcription factor NFAT3; NF-AT3; NFAT3; anti-NFATC4 antibody

PRODUCT SPECIFICATIONS

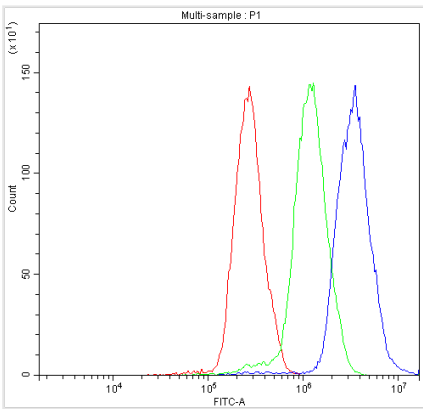
Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	82
Applicable Applications for anti-NFATC4 antibody	WB (Western Blot), ELISA
Immunogen	E Coli-derived human NFATC4 recombinant protein (Position: Q413-D522).
Subcellular Localization	Cytoplasm
Tissue Specificity	Highly expressed in placenta, lung, kidney, testis and ovary. Weakly expressed in spleen and thymus. Not expressed in peripheral blood lymphocytes. Detected in hippocampus.
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.



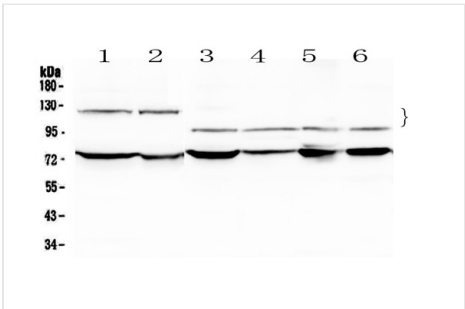
FCM/FACS (Flow Cytometry)
Figure 4. Flow Cytometry analysis of SiHa cells using anti-NFATC4 antibody (AAA124691).Overlay histogram showing SiHa cells stained with AAA124691 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NFATC4 Antibody (AAA124691,1ug/1x10⁶ 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 U2OS cells using anti-NFATC4 antibody (AAA124691).Overlay histogram showing U2OS cells stained with AAA124691 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NFATC4 Antibody (AAA124691,1ug/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 A431 cells using anti-NFATC4 antibody (AAA124691).Overlay histogram showing A431 cells stained with AAA124691 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NFATC4 Antibody (AAA124691,1ug/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 NFATC4 using anti-NFATC4 antibody (AAA124691).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: rat testis tissue lysates,Lane 2: mouse testis tissue lysates,Lane 3: human Hela whole cell lysates,Lane 4: human placenta tissue lysates,Lane 5: human A549 whole cell lysates,Lane 6: human SK-OV-3 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-NFATC4 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 NFATC4 at approximately 95120KD. The expected band size for NFATC4 is at 95KD.

ADDITIONAL INFORMATION

Related Product Information for anti-NFATC4 antibody	Description: Nuclear factor of activated T-cells, cytoplasmic 4 is a protein that in humans is encoded by the NFATC4 gene. This gene encodes a member of the nuclear factor of activated T cells (NFAT) protein family. The encoded protein is part of a 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 stimulation and an inducible nuclear component. NFAT proteins are activated by the calmodulin-dependent phosphatase, calcineurin. The encoded protein plays a role in the inducible expression of cytokine genes in T cells, especially in the induction of interleukin-2 and interleukin-4. Protein Function: Plays a role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2 and IL-4. Transcriptionally repressed by estrogen receptors; this inhibition is further enhanced by estrogen. Increases the transcriptional activity of PPARG and has a direct role in adipocyte differentiation. May play an important role in myotube differentiation. May play a critical role in cardiac development and hypertrophy. May play a role in deafferentation-induced apoptosis of sensory neurons.
Product Categories/Family for anti-NFATC4 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

NCBI AND UNIPROT INFORMATION

NCBI GI #	209862845
NCBI GeneID	4776
NCBI Accession #	NP_001129494.1
NCBI GenBank Nucleotide #	NM_001136022.2
UniProt Accession #	Q14934; B4DDG5; B4DY55; B5B2U7; B5B2U8; B5B2U9; B5B2V0; B5B2V1; B5B2V2; B5B2V3; B5B2V4; B5B2V5
Molecular Weight	8,950 Da
NCBI Official Full Name	nuclear factor of activated T-cells, cytoplasmic 4 isoform 1
NCBI Official Synonym Full Names	nuclear factor of activated T cells 4
NCBI Official Symbol	NFATC4
NCBI Official Synonym Symbols	NFAT3; NF-AT3; NF-ATC4
NCBI Protein Information	nuclear factor of activated T-cells, cytoplasmic 4
UniProt Protein Name	Nuclear factor of activated T-cells, cytoplasmic 4
UniProt Gene Name	NFATC4
UniProt Synonym Gene Names	NFAT3; NF-ATc4; NFATc4; NF-AT3

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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/nfatc4-antibody-western-blot-elisa/124691>