

Rabbit anti-Human NFAT5 Polyclonal Antibody | anti-NFAT5 antibody

Anti-NFAT5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125623	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

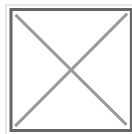
PRODUCT SYNONYMS

NFAT5; Polyclonal Antibody; Anti-NFAT5 Antibody; Nuclear factor of activated T-cells 5; NF-AT5; T-cell transcription factor NFAT5; Tonicity-responsive enhancer-binding protein; TonE-binding protein; TonEBP; KIAA0827; TONEBP; nuclear factor of activated T cells 5; anti-NFAT5 antibody

PRODUCT SPECIFICATIONS

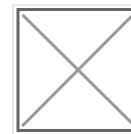
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for NFAT5 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-NFAT5 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human NFAT5 recombinant protein (Position: M1-D394).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HepG2 cells using anti-NFAT5 antibody (AAA125623). Overlay histogram showing HepG2 cells stained with AAA125623 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NFAT5 Antibody (AAA125623, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/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 NFAT5 using anti-NFAT5 antibody (AAA125623). 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 30ug of sample under reducing conditions. Lane 1: human THP-1 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-NFAT5 antigen affinity purified polyclonal antibody (Catalog # AAA125623) at 0.5 µg/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 1:5000 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 NFAT5 at approximately 170KD. The expected band size for NFAT5 is at 170KD.

ADDITIONAL INFORMATION

Related Product Information for anti-NFAT5 antibody	The product of this gene is a member of the nuclear factors of activated T cells family of transcription factors. Proteins belonging to this family play a central role in inducible gene transcription during the immune response. This protein regulates gene expression induced by osmotic stress in mammalian cells. Unlike monomeric members of this protein family, this protein exists as a homodimer and forms stable dimers with DNA elements. Multiple transcript variants encoding different isoforms have been found for this gene.
References	1. Hebinck, A., Dalski, A., Engel, H., Mattei, M. -G., Hawken, R., Schwinger, E., Zuhlke, C. Assignment of transcription factor NFAT5 to human chromosome 16q22. 1, murine chromosome 8D and porcine chromosome 6p1. 4 and comparison of the polyglutamine domains. Cytogenet. Cell Genet. 90: 68-70, 2000. 2. Lopez-Rodriguez, C., Antos, C. L., Shelton, J. M., Richardson, J. A., Lin, F., Novobrantseva, T. I., Bronson, R. T., Igarashi, P., Rao, A., Olson, E. N. Loss of NFAT5 results in renal atrophy and lack of tonicity-responsive gene expression. Proc. Nat. Acad. Sci. 101: 2392-2397, 2004. 3. Lopez-Rodriguez, C., Aramburu, J., Rakeman, A. S., Rao, A. NFAT5, a constitutively nuclear NFAT protein that does not cooperate with Fos and Jun. Proc. Nat. Acad. Sci. 96: 7214-7219, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	164419746
NCBI GeneID	10725
NCBI Accession #	NP_001106649.1
NCBI GenBank Nucleotide #	NM_001113178.2
UniProt Accession #	O94916; O95693; Q9UN18; A2RRB4; A6H8V5
Molecular Weight	165,763 Da
NCBI Official Full Name	nuclear factor of activated T-cells 5 isoform d
NCBI Official Synonym Full Names	nuclear factor of activated T-cells 5, tonicity-responsive
NCBI Official Symbol	NFAT5
NCBI Official Synonym Symbols	NFATZ; OREBP; NF-AT5; NFATL1; TONEBP
NCBI Protein Information	nuclear factor of activated T-cells 5; NFAT-like protein 1; TonE-binding protein; glutamine rich protein H65; T-cell transcription factor NFAT5; osmotic response element-binding protein; tonicity-responsive enhancer-binding protein
UniProt Protein Name	Nuclear factor of activated T-cells 5
UniProt Gene Name	NFAT5
UniProt Synonym Gene Names	KIAA0827; TONEBP; NF-AT5; TonE-binding protein; TonEBP
UniProt Entry Name	NFAT5_HUMAN

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/nfat5-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125623>