

Anti-Human NFATC3, monoclonal (clone R1106.1.2A12)

Recommended name: Nuclear factor of activated T-cells, cytoplasmic 3; Short names: NF-ATc3; NF-ATc3

Alternative name: NFATx; T-cell transcription factor NFAT4; Short name: NF-AT4

Cat. No. m15-047
Lot. No. 20150721.LI

Quantity: 100 µg
Storage: -20 °C



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

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UniProt / NCBI Summary

UniProt

Primary Accession # [Q12968](#)
Secondary Accession # [O75211](#); [Q14516](#)

NCBI

GI # [9087155](#)
GenID [4775](#)
Accession # [Q12968.1](#)
GenBank Nucleotide # [n/a](#)

Molecular Weight 115,594 Da (1,075 aa)

A member of the nuclear factors of activated T cells 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 (TCR) stimulation and an inducible nuclear component. Other members of this family participate to form this complex also. The product of this gene plays a role in the regulation of gene expression in T cells and immature thymocytes. Four transcript variants encoding distinct isoforms have been identified for this gene.

Subcellular location: nucleus

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Physical Characteristics

Quantity: 100 µg

Concentration: 1.0 mg/ml

Host / Isotype: mouse IgG2b

Clonality: monoclonal; ID R1106.1.2A12

Immunogen: recombinant protein corresponding to aa residues 475-639 of human NFATC3

Purification: affinity-chromatography using Protein G

Formulation: 30% glycerol, 1x PBS, 0.02% sodium azide

Specificity: monospecific for human NFATC3; see microarray analysis below

Reactivity: human

Stability/Storage: 12 months long term: -20 °C; short term: 4 °C; avoid freeze-thaw cycles; aliquot as required

Handling Notes: small volumes of antibody may occasionally become entrapped in the seal of the product vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container cap.

Tested Research Applications

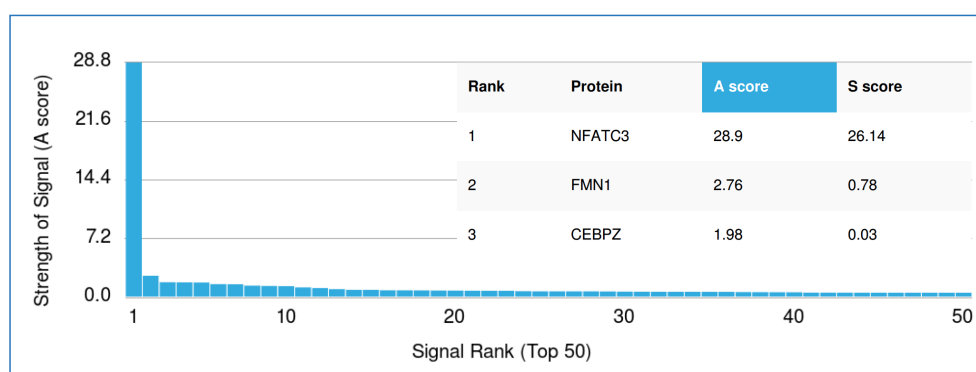
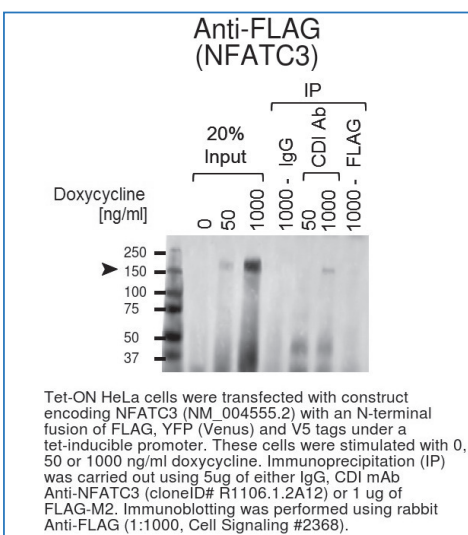
Immunoprecipitation: recommended; see below.

ChIP-Seq: recommended; see page 2

Western Blot: tested on cells transfected with a construct encoding NFATC3; utility on native cells under evaluation

Octet: Recommended.

Quality Assurance



Specificity Analysis with HuProt™ Human Proteome Microarray: Anti Human NFATC3 (clone R1106.1.2A12) was analyzed using the CDI HuProt™ Human Proteome Microarray.

For more information on A/S scores and how they relate to specificity, see page 2.

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Continued from page 1.

Selected References:

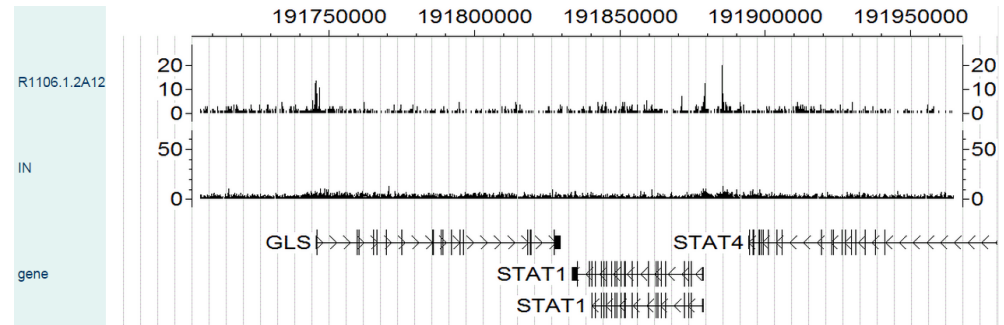
Rudolf R, Busch R, Patra AK, Muhammad K, Avots A, Andrau JC, Klein-Hessling S, Serfling E (2014) Architecture and expression of the nfatc1 gene in lymphocytes. *Front Immunol* **5**:21. [[PubMed](#)]

Rao A, Luo C, Hogan PG (1997) Transcription factors of the NFAT family: regulation and function. *Annu Rev Immunol* **15**:707-747. [[PubMed](#)]

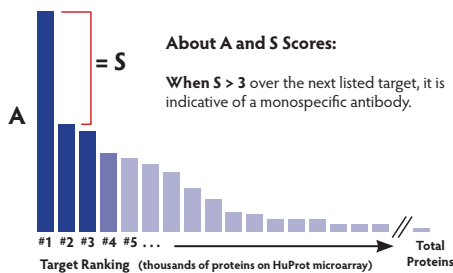
Mojsa B, Mora S, Bossowski JP, Lassot I, Desagher S (2015) Control of neuronal apoptosis by reciprocal regulation of NFATc3 and Trim17. *Cell Death Differ* **22**:274-286. [[PubMed](#)]

Tested Research Applications

ChIP-Seq: Recommended



The ChIP was performed with chromatin from 10 million HCT116 cells or HeLa cells and 3 µg of Anti-NFATC3 (cloneID # R1106.1.2A12) antibody. The ChIP DNA was sequenced on an Illumina HiSeq platform and read counts were calculated at consecutive 100 bp bins across the human genome hg19. Normalized read-count levels for ChIP-seq of NFATC3 (R1106.1.2A12) and control (IN) around the GLS and STAT1 loci are displayed in the CisGenome browser.



Statistical Analysis: Thousands of GenePix data points (from the microarray) are analyzed in terms of signal strength and ranked accordingly.

SUMMARY: The A-score indicates the number of standard deviations above background seen for the mean signal bound by the target antigen. The S-score represents the difference between the A-score of the target antigen and the next best hit on the array. S-scores **greater than 3 standard deviations over the next listed target** are deemed statistically significant and indicate **highly specific antibodies**. [More info at cdi-lab.com/HighSpec.html](http://cdi-lab.com/HighSpec.html)

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