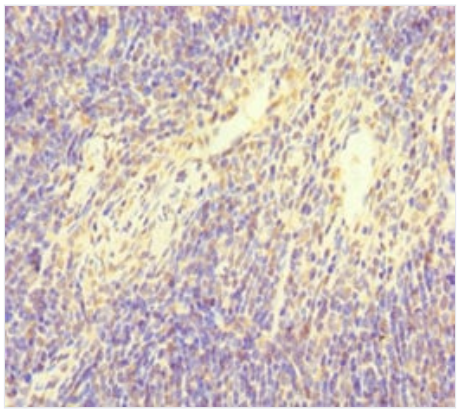
# NFATC1 Antibody – Rabbit Polyclonal

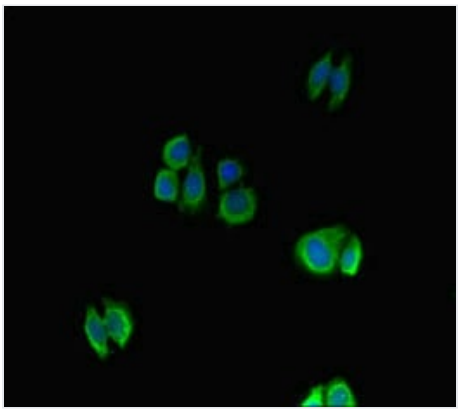
## PRODUCT OVERVIEW

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| **Product Name** | NFATC1, Polyclonal Antibody |
| **Full Product Name** | NFATC1 Antibody |
| **Product Gene Name** | anti-NFATC1 antibody |
| **Product Synonym Names** | Nuclear factor of activated T-cells; cytoplasmic 1NF-ATc1NFATc1; NFAT transcription complex cytosolic component; NF-ATc; NFATc; NFATC1; NFAT2; NFATC |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid |
| **Purity/Purification** | >95%, Protein G purified |
| **Preparation and Storage** | Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze. |
| **Matching Pairs** | Unconjugated Antibody: NFATC1 (MBS7045244)<br>FITC Conjugated Antibody: NFATC1 (MBS7045611) |
| **Matching Pairs** | Unconjugated Antibody: NFATC1 (MBS7045244)<br>HRP Conjugated Antibody: NFATC1 (MBS7046313) |
| **Matching Pairs** | Unconjugated Antibody: NFATC1 (MBS7045244)<br>Biotin Conjugated Antibody: NFATC1 (MBS7046458) |
| **Molecular Weight** | 38,626 Da |
| **OMIM** | 600489 |
| **3D Structure** | ModBase 3D Structure for O95644 |
| **Species** | Human |
| **Immunogen** | Recombinant human Nuclear factor of activated T-cells, cytoplasmic 1 protein |
| **Conjugate** | Non-conjugated |
| **Buffer** | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, PH 7.4 |
| **Santa Cruz Alternative** | Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-1149 / sc-13033 |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-NFATC1 antibody** | ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF) |
| **Related Product Information for anti-NFATC1 antibody** | 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). |

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| **Other Notes** | Small volumes of anti-NFATC1 antibody vial(s) 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`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for NFATC1 purchase** | MBS7045244 is an antibody targeting NFATC1. Also known as NFATC1 Antibody. Reactive in Human. Host: Rabbit. |



**Immunohistochemistry (IHC) of anti-NFATC1 antibody**
Immunohistochemistry of paraffin-embedded human pancreatic tissue using MBS7045244 at dilution of 1:100



**Immunofluorescence (IF) of anti-NFATC1 antibody**
Immunofluorescent analysis of HepG-2 cells using MBS7045244 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NFATC1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 522021835 |
| **NCBI GeneID** | 4772 |
| **NCBI Accession #** | NP_001265598.1 |
| **UniProt Primary Accession #** | O95644 |
| **UniProt Secondary Accession #** | Q12865; Q15793; Q2M1S3; B5B2M4; B5B2M5; B5B2M6; B5B2M7; B5B2M8; B5B2M9; B5B2N1 |
| **UniProt Related Accession #** | O95644 |
| **GenBank Nucleotide #** | NM_001278669.1 |
| **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 |
| **UniProt Protein Name** | Nuclear factor of activated T-cells, cytoplasmic 1 |
| **UniProt Synonym Protein Names** | NFAT transcription complex cytosolic component; NF-ATc; NFATc |
| **Protein Family** | Nuclear factor of activated T-cells |
| **UniProt Gene Name** | NFATC1 |
| **UniProt Synonym Gene Names** | NFAT2; NFATC; NF-ATc1; NFATc1; NF-ATc; NFATc |
| **UniProt Entry Name** | NFAC1_HUMAN |
| **NCBI Protein Information** | nuclear factor of activated T-cells, cytoplasmic 1 |

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| **NCBI Summary for NFATC1** | The product of this gene is a component of the nuclear factor 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. Proteins belonging to this family of transcription factors play a central role in inducible gene transcription during immune response. The product of this gene is an inducible nuclear component. It functions as a major molecular target for the immunosuppressive drugs such as cyclosporin A. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. Different isoforms of this protein may regulate inducible expression of different cytokine genes. [provided by RefSeq, Jul 2013] |
| **UniProt Comments for NFATC1** | NFAT2: a transcription factor that plays a role in the inducible expression of cytokine genes in T cells, especially in the induction of the IL-2 and IL-4. Also control gene expression in embryonic cardiac cells. Could regulate not only the activation and proliferation but also the differentiation and programmed death of lymphoid and nonlymphoid cells. Six splice variant isoforms have been identified. 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.<br><br>Protein type: DNA-binding; Transcription factor<br><br>Chromosomal Location of Human Ortholog: 18q23<br><br>Cellular Component: cytoplasm; cytosol; nuclear chromatin; nucleoplasm; nucleus<br><br>Molecular Function: FK506 binding; mitogen-activated protein kinase p38 binding; protein binding; RNA polymerase II transcription factor activity, enhancer binding; transcription factor activity<br><br>Biological Process: calcineurin-NFAT signaling pathway; negative regulation of Wnt receptor signaling pathway; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; transcription from RNA polymerase II promoter; Wnt receptor signaling pathway, calcium modulating pathway |
| **Research Articles on NFATC1** | **1.** InB may exhibit growth-inhibitory activity through the activation of PKCalpha, followed by an increase in NFAT transactivation ability. |
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