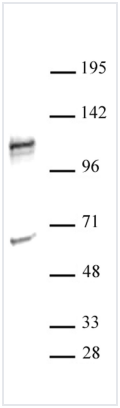
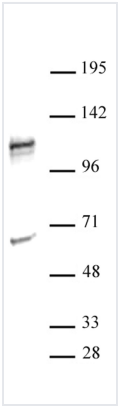
NFATC2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NFATC2, Polyclonal Antibody
Full Product Name	NFATC2 antibody (pAb)
Product Gene Name	anti-NFATC2 antibody
Product Synonym Names	NFAT1; NFATP
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified IgG in PBS with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Purity/Purification	Affinity Purified
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul
Molecular Weight	76,700 Da
OMIM	600490
3D Structure	ModBase 3D Structure for Q13469
Immunogen	This antibody was raised against a peptide within the N-terminal region of human NFATC2.
Product Categories/Family for anti-NFATC2 antibody	Primary Antibodies
Applications Tested/Suitable for anti-NFATC2 antibody	Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-NFATC2 antibody	Applications Validated: IP: 10ul per IP WB: 1:500-1:2,000 dilution
Related Product Information for anti-NFATC2 antibody	Short Description: Our NFATC2 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Immunoprecipitation and Western blot; it has been shown to react with Human samples. Background: NFATC2 (Nuclear Factor Of Activated T-Cells, Cytoplasmic, Calcineurin-Dependent 2) plays a role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2, IL-3, IL-4, TNF-alpha or GM-CSF. Promotes invasive migration through the activation of GPC6 expression and WNT5A signaling pathway.
Other Notes	Small volumes of anti-NFATC2 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 NFATC2 purchase	MBS388981 is an antibody targeting NFATC2. Also known as NFATC2 antibody (pAb). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NFATC2 antibody
NFATC2 antibody (pAb) tested by Immunoprecipitation. 10 ul of NFATC2 antibody was used to immunoprecipitate NFATC2 from 500 ug of Raji nuclear cell extract (lane 2). 10 ul of rabbit IgG was used as a negative control (lane 1). The immunoprecipitated protein was detected by Western blotting using the NFATC2 antibody at a dilution of 1:500.



Western Blot (WB) of anti-NFATC2 antibody
NFATC2 antibody (pAb) tested by Western blot. Detection of NFATC2 by Western blot analysis. NFATC2 was detected using a 1:500 dilution of NFATC2 (pAb) with 30 ug of Ramos nuclear extract.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NFATC2. It may not necessarily be applicable to this product.

NCBI GI #	27886539
NCBI GeneID	4773
NCBI Accession #	NP_036472
NCBI Related Accession #	AB_2793706
UniProt Primary Accession #	Q13469
UniProt Secondary Accession #	Q13468; Q5TFW7; Q5TFW8; Q9NPX6; Q9NQH3; Q9UJR2; B5B2N8; B5B2N9; B5B2P0; B5B2P2; B5B2P3
UniProt Related Accession #	Q13469
GenBank Nucleotide #	NM_012340.4
NCBI Official Full Name	nuclear factor of activated T-cells, cytoplasmic 2 isoform B
NCBI Official Synonym Full Names	nuclear factor of activated T-cells 2
NCBI Official Symbol	NFATC2
NCBI Official Synonym Symbols	NFAT1; NFATP
UniProt Protein Name	Nuclear factor of activated T-cells, cytoplasmic 2
UniProt Synonym Protein Names	NFAT pre-existing subunit; NF-ATp; T-cell transcription factor NFAT1
Protein Family	Nuclear factor of activated T-cells
UniProt Gene Name	NFATC2
UniProt Synonym Gene Names	NFAT1; NFATP; NF-ATc2; NFATc2; NF-ATp
UniProt Entry Name	NFAC2_HUMAN
NCBI Protein Information	nuclear factor of activated T-cells, cytoplasmic 2
NCBI Summary for NFATC2	This gene is a member of the nuclear factor of activated T cells (NFAT) family. The product of this gene is a DNA-binding protein with a REL-homology region (RHR) and an NFAT-homology region (NHR). This protein is present in the cytosol and only translocates to the nucleus upon T cell receptor (TCR) stimulation, where it becomes a member of the nuclear factors of activated T cells transcription complex. This complex plays a central role in inducing gene transcription during the immune response. Alternate transcriptional splice variants encoding different isoforms have been characterized. [provided by RefSeq, Apr 2012]

UniProt Comments for NFATC2	NFAT1: 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, IL-3, IL-4, TNF-alpha and GM-CSF. It is present in a phosphorylated the cytosol of unstimulated T cells. After T-cell activation, it is dephosphorylated by calcineurin and translocates to the nucleus as a part of a transcription complex. Two splice variant isoforms have been identified. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 20q13.2 Cellular Component: nucleoplasm; cytoplasm; plasma membrane; nucleus; cytosol; ribonucleoprotein complex; actin cytoskeleton Molecular Function: protein binding; DNA binding; transcription factor activity Biological Process: response to drug; B cell receptor signaling pathway; cell migration; transcription, DNA-dependent; regulation of transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; positive regulation of B cell proliferation; cytokine production; innate immune response; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription from RNA polymerase II promoter; response to DNA damage stimulus
Research Articles on NFATC2	**1.** These data suggest that NFATc2 expression is regulated by intracellular calcium and in vitro stretch, and that the stretch response in human myometrial cells is dependent upon intracellular calcium signalling pathways.
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