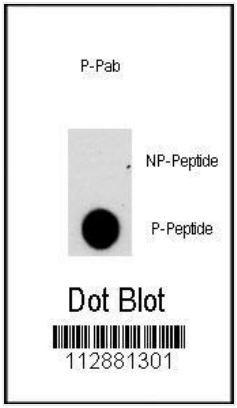
NFATC2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NFATC2, Polyclonal Antibody
Full Product Name	NFATC2, Phosphorylated (Ser330) (Nuclear Factor Of Activated T-cells, Cytoplasmic 2, NF-ATc2, NFATc2, T-cell Transcription Factor NFAT1, NFAT Pre-existing Subunit, NF-ATp, NFAT1, NFATP) (APC)
Product Gene Name	anti-NFATC2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human NFATC2 when phosphorylated at Ser330.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Do not freeze APC conjugates. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	76,700 Da
OMIM	600490
3D Structure	ModBase 3D Structure for Q13469
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Ser330 of human NFATC2 (KLH).
Conjugate	APC
Antigen Modification	Phosphorylated
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-NFATC2 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-NFATC2 antibody	FLISA, Dot Blot (DB)
Application Notes for anti-NFATC2 antibody	FLISA: 1:1,000 Dot Blot: 1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-NFATC2 antibody	MBS6490012 is an antibody targeting NFATC2. Also known as NFATC2, Phosphorylated (Ser330) (Nuclear Factor Of Activated T-cells, Cytoplasmic 2, NF-ATc2, NFATc2, T-cell Transcription Factor NFAT1, NFAT Pre-existing Subunit, NF-ATp, NFAT1, NFATP) (APC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-NFATC2 antibody	1. Golks, A., EMBO J. 26(20), 4368-4379 (2007). 2. Dong, X., J. Biol. Chem. 282(41), 30303-30310 (2007). 3. Gibson, H.M., J. Immunol. 179(6), 3831-3840 (2007).
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.



Dot Blot (DB) of anti-NFATC2 antibody
Dot blot analysis of anti-NFATC2-pS330 Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

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
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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