

Product datasheet

Anti-NFAT2 antibody ab25916

★★★★★ [11 Abreviews](#) [52 References](#) [3 Images](#)

Overview

Product name	Anti-NFAT2 antibody
Description	Rabbit polyclonal to NFAT2
Host species	Rabbit
Specificity	The amino acid sequence used is 100% identical in human NFATc1A, B, C and E isoforms. The NFATc1 antibody may detect multiple isoforms of different sizes depending upon the cell lines.
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Mouse, Human, Chimpanzee
Immunogen	Synthetic peptide: NKRKYSLNGRQPPYSPHHS , corresponding to amino acids 263-282 of Human NFATc1 Run BLAST with Run BLAST with
Positive control	Ramos cell lysate
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	pH: 7.4 Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
Purity	Protein G purified
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab25916 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (2)	1/20.
WB	★★★★★ (4)	Use a concentration of 1 - 3 µg/ml. Predicted molecular weight varies with isoform.

Target

Function

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.

Tissue specificity

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.

Sequence similarities

Contains 1 RHD (Rel-like) domain.

Domain

Rel Similarity Domain (RSD) allows DNA-binding and cooperative interactions with AP1 factors. The N-terminal transactivation domain (TAD-A) binds to and is activated by Cbp/p300. The dephosphorylated form contains two unmasked nuclear localization signals (NLS), which allow translocation of the protein to the nucleus. Isoforms C have a C-terminal part with an additional trans-activation domain, TAD-B, which acts as a transcriptional activator. Isoforms B have a shorter C-terminal part without complete TAD-B which acts as a transcriptional repressor.

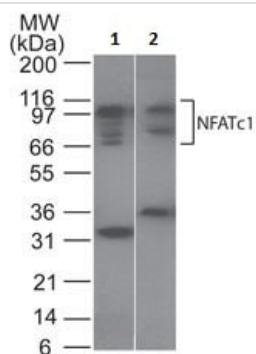
Post-translational modifications

Phosphorylated by NFATC-kinase; dephosphorylated by calcineurin.

Cellular localization

Cytoplasm. Nucleus. Cytoplasmic for the phosphorylated form and nuclear after activation that is controlled by calcineurin-mediated dephosphorylation. Rapid nuclear exit of NFATC is thought to be one mechanism by which cells distinguish between sustained and transient calcium signals. The subcellular localization of NFATC plays a key role in the regulation of gene transcription.

Images

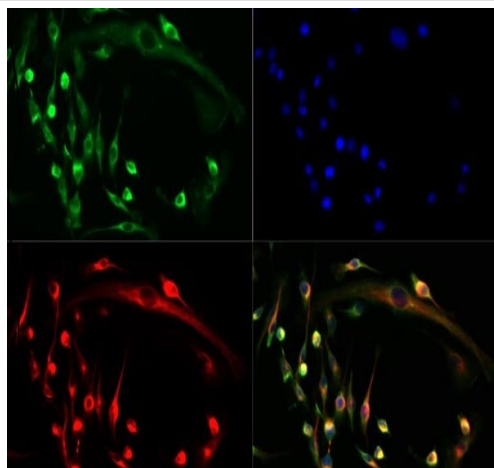


Western blot - Anti-NFAT2 antibody (ab25916)

All lanes : Anti-NFAT2 antibody (ab25916) at 1 mg/ml

Lane 1 : Ramos (human Burkitt's lymphoma cell line) whole cell lysate

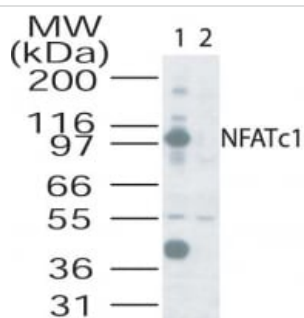
Lane 2 : RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate



Immunocytochemistry/ Immunofluorescence - Anti-NFAT2 antibody (ab25916)

RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) cells stained for NFAT2 (green) using ab25916 at 1/500 dilution in ICC/IF.

The nuclear counterstain is DAPI (blue). Alpha-Tubulin is stained with Dylight 550 (red).



Western blot - Anti-NFAT2 antibody (ab25916)

Western blot analysis of NFATc1 in Ramos cell lysate. Lane 1. Without blocking peptide. Lane 2. With blocking peptide.

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