

For Research Use Only

# CoraLite®594-conjugated NFATC2 Polyclonal antibody



Catalog Number: CL594-22023

Featured Product

## Basic Information

Catalog Number:

CL594-22023

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16849

GenBank Accession Number:

BC136418

GeneID (NCBI):

4773

UNIPROT ID:

Q13469

Full Name:

nuclear factor of activated T-cells,  
cytoplasmic, calcineurin-dependent 2

Calculated MW:

925 aa, 100 kDa

Observed MW:

135 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima  
wavelengths:

588 nm / 604 nm

## Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse

Positive Controls:

IF/ICC : U-251 cells,

## Background Information

Nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), also named NFAT1, or NFATP, is a 925 amino acid protein, which is expressed in thymus, spleen, heart, testis, brain, placenta, muscle and pancreas. 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. NFATC2 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. NFATC2 promotes invasive migration through the activation of GPC6 expression and WNT5A signaling pathway. The calculated molecular weight of NFATC2 is about 97-100 kDa, but the modified NFATC2 protein is about 135 kDa.

## Storage

Storage:

Store at -20°C. Avoid exposure to light.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

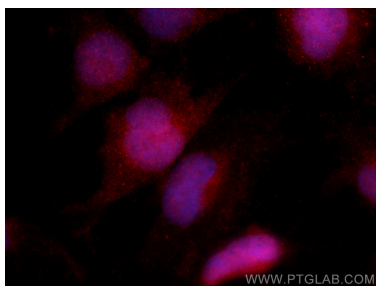
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

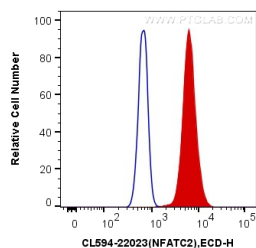
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using CoraLite® 594 NFATC2 antibody (CL594-22023) at dilution of 1:200.



1X10<sup>6</sup> Ramos cells were intracellularly stained with 0.4 ug CoraLite® 594 Anti-Human NFATC2 (CL594-22023) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).