

For Research Use Only

# CoraLite®594-conjugated NFATC1 Monoclonal antibody



Catalog Number:CL594-66963

## Basic Information

Catalog Number:

CL594-66963

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG13014

GenBank Accession Number:

BC104753

GeneID (NCBI):

4772

UNIPROT ID:

O95644

Full Name:

nuclear factor of activated T-cells,  
cytoplasmic, calcineurin-dependent 1

Calculated MW:

716aa,78 kDa; 943aa,101 kDa

Observed MW:

101 kDa

Purification Method:

Protein G purification

CloneNo.:

1E1B10

Excitation/Emission maxima  
wavelengths:

588 nm / 604 nm

## Applications

Tested Applications:

FC (Intra)

Species Specificity:

Human

## Background Information

NFATc1(nuclear factor-activated T cells c1) is one of the transcription factors family consisting 5 members which were considered as a regulator of T-cell activation. In immune cell, NFATc1 is located in the cytoplasm in a hyperphosphorylated state and translocates into the nucleus upon cell stimulation via dephosphorylation(PMID:28327458). One paper observed that ectopic expression and nuclear accumulation of NFATc1 in more than 60% of human pancreatic cancers (PMID:25623042). Several alternative splicing transcript variants encoding different isoforms have been identified for this gene. And different isoforms of this protein may regulate different cytokine gene expression. NFATc1 is a main transcriptional activator for cytokine genes in activated lymphoid cells. Also some studies demonstrated that NFATc1 plays the role of a master transcription regulator of osteoclast differentiation (PMID:25489571).

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

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

W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

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## Selected Validation Data



1X10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.4 ug CoraLite® 594 Anti-Human NFATC1 (CL594-66963, Clone:1E1B10) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).