

# NFATC1 Polyclonal antibody

Catalog Number: 30114-1-AP

## Basic Information

**Catalog Number:**

30114-1-AP

**Size:**

650 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG32365

**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:**

82-140 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

IF/ICC, WB, ELISA

**Species Specificity:**

Human

**Positive Controls:**

WB : HEK-293 cells,

IF/ICC : U-251 cells,

## Background Information

Nuclear factor of activated T-cells cytoplasmic (NFATC) is a family of transcription factors originally identified in T-cells. The family has five members (NFATC1 through NFATC5), which play roles both within and outside the immune system. NFATC1 is widely expressed and resides in endocardial cushion endothelial cells, skeletal muscle fibers, T lymphocytes, osteoblasts, osteoclasts, etc. The autoregulation of NFATC1 is a crucial step for cell fate determination. It is a master regulator of RANKL-induced osteoclast differentiation and plays a pivotal role in osteoclast fusion and osteoclast activation via up-regulation of various genes responsible for osteoclast adhesion, migration, acidification, degradation of inorganic and organic bone matrix (PMID: 20035895, PMID: 19754901). NFAT proteins is alternatively modified to generate splice variants. NFATC1 can be detected isoforms of 82-140 kDa (PMID: 18097033).

## Storage

**Storage:**

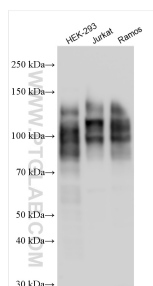
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

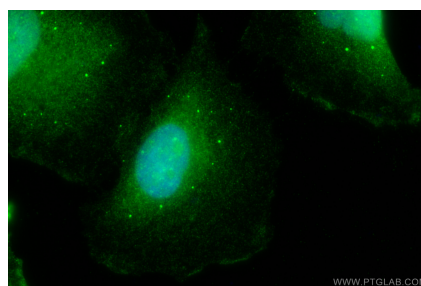
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30114-1-AP (NFATC1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using NFATC1 antibody (30114-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).