

For Research Use Only

NFATC1 Polyclonal antibody

Catalog Number: 30114-1-AP



Basic Information

Catalog Number: 30114-1-AP	GenBank Accession Number: BC104753	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 650 µg/ml by Nanodrop;	GeneID (NCBI): 4772	Recommended Dilutions: WB 1:500-1:2000 IF 1:200-1:800
Source: Rabbit	Full Name: nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	
Isotype: IgG	Calculated MW: 716aa, 78 kDa; 943aa, 101 kDa	
Immunogen Catalog Number: AG32365	Observed MW: 82-140 kDa	

Applications

Tested Applications: IF, WB, ELISA	Positive Controls: WB : HEK-293 cells, IF : U-251 cells,
Species Specificity: Human	

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

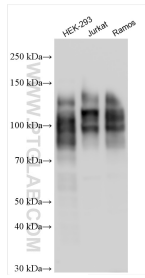
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

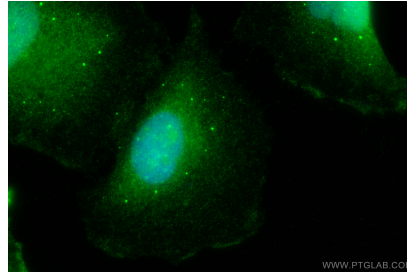
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



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).