

For Research Use Only

# NFATC3 Polyclonal antibody

Catalog Number: 18222-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

18222-1-AP

### Size:

150UL, Concentration: 340 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12985

### GenBank Accession Number:

BC001050

### GeneID (NCBI):

4775

### Full Name:

nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3

### Calculated MW:

116 kDa

### Observed MW:

130-170 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:200-1:1000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IHC 1:20-1:200

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

ChIP, IF, IHC, WB

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB: mouse thymus tissue, mouse skeletal muscle tissue

IP: mouse skeletal muscle tissue,

IHC: human ovary tissue, human testis tissue

## Background Information

NFAT (nuclear factors of activated T cells) proteins are a family of transcription factors originally identified as mediators of activation of cytokine genes in response to antigenic stimulation of T cells. NFAT proteins also play varied roles in cells outside of the immune system [PMID:11877454]. NFATc3 has specifically been implicated in vasculature development, regulation of smooth muscle contractile phenotype, and modulation of vascular smooth muscle contractility [PMID:11439183,17148444]. The calculated molecular weight of NFATC3 is 115 kDa, but the post-modified protein is about 130-170 kDa (PMID: 15728531, PMID: 15857835)

## Notable Publications

Author	Pubmed ID	Journal	Application
Hua Bai	30326911	Cell Commun Signal	WB,ChIP
Chisumi Sogi	32666020	JBMR Plus	IHC
Haojie Jin	28583823	Gastroenterology	WB

## 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

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)

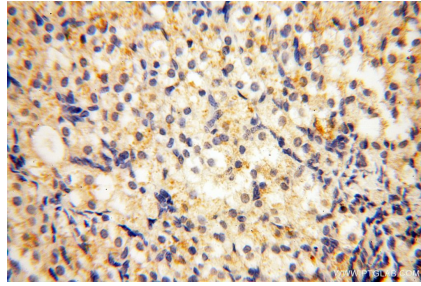
E: proteintech@ptglab.com  
W: ptglab.com

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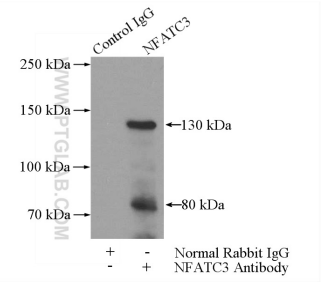
## Selected Validation Data



mouse thymus tissue were subjected to SDS PAGE followed by western blot with 18222-1-AP (NFATC3 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary using 18222-1-AP (NFATC3 antibody) at dilution of 1:100 (under 40x lens).



IP Result of anti-NFATC3 (IP:18222-1-AP, 5ug; Detection:18222-1-AP 1:500) with mouse skeletal muscle tissue lysate 2000ug.