

For Research Use Only

NFATC3 Polyclonal antibody

Catalog Number: 18222-1-AP

Featured Product

31 Publications



Basic Information

Catalog Number:

18222-1-AP

Concentration:

700 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12985

GenBank Accession Number:

BC001050

GeneID (NCBI):

4775

UNIPROT ID:

Q12968

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 1:2000-1:12000

IP 0.5-4.0 µg for 1.0-3.0 mg of total
protein lysate

IHC 1:20-1:200

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IHC, IF, IP, ChIP

Species Specificity:

human

Cited Species:

human, mouse, rat

Positive Controls:

WB: Jurkat cells, K-562 cells

IP: K-562 cells,

IHC: human ovary tissue, human testis tissue

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

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
Joshua R Sheak	32997513	Am J Physiol Lung Cell Mol Physiol	WB,IF
Qian Wang	33015191	J Diabetes Res	IF
Feng Zhu	36115111	Biomed Pharmacother	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

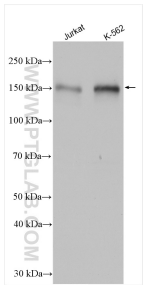
T: 4006900926

E: Proteintech-CN@ptglab.com

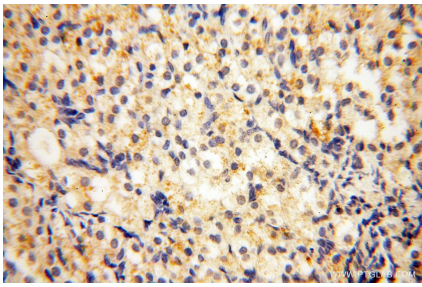
W: ptgcn.com

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

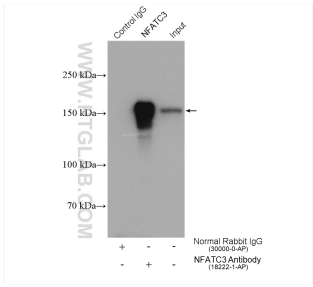
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 18222-1-AP (NFATC3 antibody) at dilution of 1:6000 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, 4ug; Detection:18222-1-AP 1:1000) with K-562 cells lysate 1760 ug.