

For Research Use Only

NFATC3 Polyclonal antibody

Catalog Number: 18222-1-AP

Featured Product

31 Publications



Basic Information

Catalog Number:

18222-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

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 ug 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

*** 20ul sizes contain 0.1% BSA

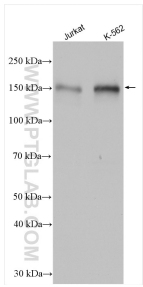
For technical support and original validation data for this product please contact:

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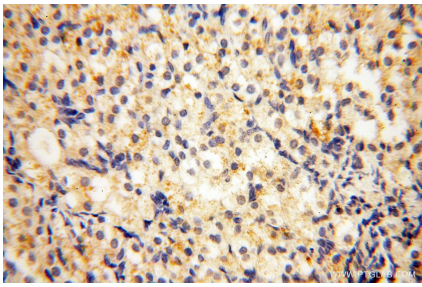
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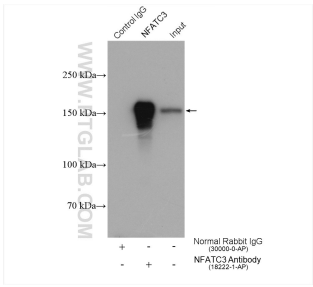
Selected Validation Data



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.