

NFATC3 Monoclonal antibody

Catalog Number: 66924-1-Ig

Basic Information

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| Catalog Number: 66924-1-Ig | GenBank Accession Number: BC001050 | Purification Method: Protein G purification |
| Size: 150ul, Concentration: 1400 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 4775 | CloneNo.: 1C1H8 |
| Source: Mouse | UNIPROT ID: Q12968 | Recommended Dilutions: WB: 1:1000-1:6000 IHC: 1:150-1:600 IF/ICC: 1:200-1:800 |
| Isotype: IgG1 | Full Name: nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3 | Affinity: $K_D = 1.16 \times 10^{-10} M$ $K_{off} = 5.67 \times 10^{-6} M$ $K_{on} = 4.90 \times 10^4 M$ |
| Immunogen Catalog Number: AG27306 | Calculated MW: 116 kDa Observed MW: 160 kDa | |

Applications

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| Tested Applications: WB, IHC, IF/ICC, ELISA | Positive Controls: WB: Jurkat cells, K-562 cells, Daudi cells IHC: human thymus tissue, IF/ICC: SKOV-3 cells, |
| Species Specificity: human | |
| 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)

Storage

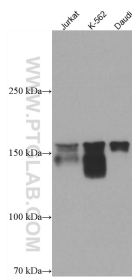
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

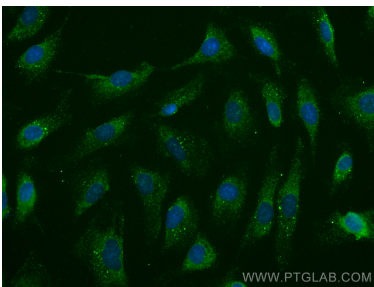
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
 W: ptglab.com

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

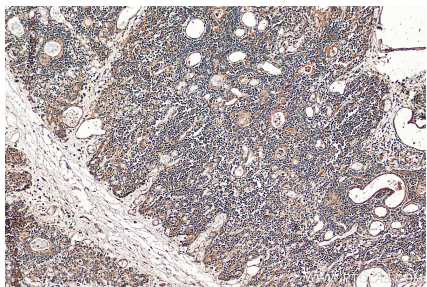
Selected Validation Data



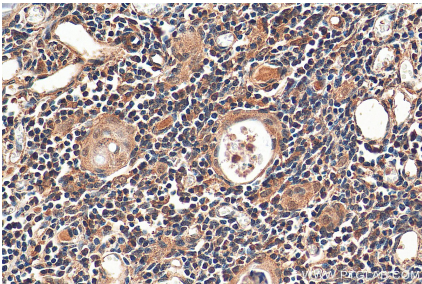
Various lysates were subjected to SDS PAGE followed by western blot with 66924-1-Ig (NFATC3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed SKOV-3 cells using NFATC3 antibody (66924-1-Ig, Clone: 1C1H8) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).



Immunohistochemical analysis of paraffin-embedded human thymus tissue slide using 66924-1-Ig (NFATC3 antibody) at dilution of 1:300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human thymus tissue slide using 66924-1-Ig (NFATC3 antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).