

For Research Use Only

# NFATC3 Monoclonal antibody, PBS Only (Detector)



Catalog Number: 66924-1-PBS

## Basic Information

<b>Catalog Number:</b> 66924-1-PBS	<b>GenBank Accession Number:</b> BC001050	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4775	<b>CloneNo.:</b> 1C1H8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q12968	<b>Affinity:</b> $K_D = 1.16 \times 10^{-10}M$
<b>Isotype:</b> IgG1	<b>Full Name:</b> nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3	$K_{Off} = 5.67 \times 10^{-6}M$ $K_{On} = 4.90 \times 10^4M$
<b>Immunogen Catalog Number:</b> AG27306	<b>Calculated MW:</b> 116 kDa	
	<b>Observed MW:</b> 160 kDa	

## Applications

**Tested Applications:**  
WB, Sandwich ELISA, Indirect ELISA

**Species Specificity:**  
Human

## Product Information

66924-1-PBS targets NFATC3 as part of a matched antibody pair:

MP50022-1: 66924-2-PBS capture and 66924-1-PBS detection (validated in Sandwich ELISA)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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

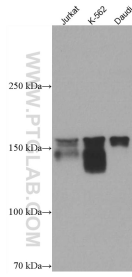
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
100% PBS pH 7.3

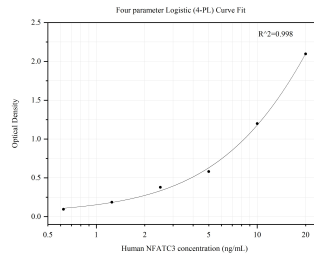
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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. This data was developed using the same antibody clone with 66924-1-PBS in a different storage buffer formulation.



Sandwich ELISA standard curve of MP50022-1, NFATC3 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 66924-2-PBS. Detection antibody: HRP-conjugated 66924-1-PBS. Standard: Ag27306. Range: 0.625-20 ng/mL.