For Research Use Only

## NFATC2 Monoclonal antibody

Catalog Number:66917-1-Ig

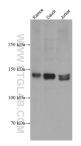


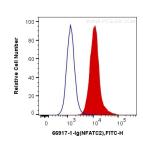
Basic Information	Catalog Number: 66917-1-lg	GenBank Accession Number: BC136418	Purification Method: Protein G purification	
	Size: 150ul, Concentration: 2000 ug/ml by Nanodrop and 913 ug/ml by Bradford method using BSA as the standard; Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG17990	Genel D (NCBI): 4773	CloneNo.: 1F3B2	
		UNIPROT ID: Q13469 Full Name: nuclear factor of activated T- cytoplasmic, calcineurin-dep Calculated MW: 925 aa, 100 kDa	-	
		Observed MW: 135-140 kDa		
Applications	Tested Applications: WB, IHC, FC (Intra), ELISA	Positive Controls:		
	Species Specificity: human, mouse		WB : Ramos cells, Daudi cells, Jurkat cells IHC : human breast cancer tissue, human lymphoma tissue, mouse 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	Nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), also named NFAT1, or NFATP, is a 925 amino acid protein, which is expressed in thymus, spleen, heart, testis, brain, placenta, muscle and pancreas. Cytoplasmic for the phosphorylated form and nuclear after activation that is controlled by calcineurin-mediated dephosphorylation Rapid nuclear exit of NFATC is thought to be one mechanism by which cells distinguish between sustained and transient calcium signals. The subcellular localization of NFATC plays a key role in the regulation of gene transcription. NFATC 2 plays a role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2, IL-3, IL-4, TNF-alpha or GM-CSF. NFATC2 promotes invasive migration through the activation c GPC6 expression and WNT5A signaling pathway. The calculated molecular weight of NFATC2 is about 97-100 kDa, but the modified NFATC2 protein is about 135 kDa.			
Storage	Storage: Store at -20°C. Stable for one year after Storage Buffer: PBS with 0.02% sodium azide and 50°			

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

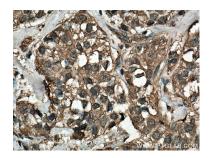
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## Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 66917-1-lg (NFATC2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. 1X10^6 Jurkat cells were intracellularly stained with 0.2 ug Anti-Human NFATC2 (66917-1-1g, Clone:1F3B2) and CoraLite®488-Conjugated Goat Anti-Mouse 1gG(H+L) at dilution 1:1000 (red), or 0.2 ug Mouse 1gG1 Isotype Control (66360-1-1g, Clone: T1F8D3F10) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66917-1-1g (NFATC2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).