For Research Use Only

NFATC2 Polyclonal antibody Catalog Number:22023-1-AP Featured Product 22

Featured Product 22 Publications



		GenBank Accession Number: BC 136418		Purification Method: Antigen affinity purification	
	Size:	GenelD (NO	CBI):	Recommended Dilutions: WB 1:2000-1:16000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500	
	900 µg/ml	4773			
	Source:	UNIPROT II	D:		
	Rabbit	Q13469			
	lsotype:		Full Name: IF/ICC 1:50-1:500		
	lgG		nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 Calculated MW: 925 aa, 100 kDa Observed MW: 135 kDa		
	Immunogen Catalog Number: AG16849	• •			
Applications	Tested Applications: WB, IHC, IF/ICC, FC (Intra), IP, ELISA Cited Applications:			Positive Controls:	
			WB: Jurkat cells,		
	WB, IHC, IF	P: Jur		ls,	
	Species Specificity: human, mouse		IHC : human breast cancer tissue, human colon cance tissue, human lymphoma tissue		
	Cited Species: human, mouse				
	TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Informatio	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 dephosphorylatior 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. NFATC2 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 of 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.				
Notable Publications	Author	Pubmed ID	Journal	Application	
		33015191	J Diabetes Res	IF	
		36071475	J Neuroinflammation	WB	
		33125687	Reprod Sci	WB	

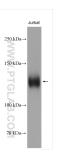
T: 4006900926

For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com

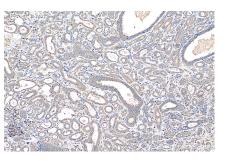
W: ptgcn.com

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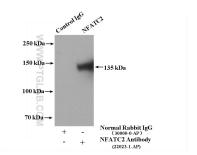
Selected Validation Data



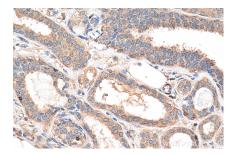
Jurkat cells were subjected to SDS PAGE followed by western blot with 22023-1-AP (NFATC2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



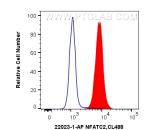
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 22023-1-AP (NFATC 2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



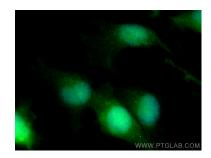
IP result of anti-NFATC2 (IP:22023-1-AP, 4ug; Detection:22023-1-AP 1:1000) with Jurkat cells lysate 3200ug.



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 22023-1-AP (NFATC2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 Jurkat cells were intracellularly stained with 0.4 ug Anti-Human NFATC2 (22023-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using NFATC2 antibody (22023-1-AP) at dilution of 1:200 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L).