

For Research Use Only

NFATC2 Recombinant monoclonal antibody

Catalog Number: 87895-1-RR



Basic Information

Catalog Number: 87895-1-RR	GenBank Accession Number: BC136418	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 4773	CloneNo.: 253473A12
Source: Rabbit	UNIPROT ID: Q13469	Recommended Dilutions: WB: 1:5000-1:50000
Isotype: IgG	Full Name: nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2	
Immunogen Catalog Number: AG16849	Calculated MW: 925 aa, 100 kDa	
	Observed MW: 135 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : Sp2/O cells, mouse thymus tissue, rat spleen tissue
Species Specificity: human, mouse, rat	

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. 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.

Storage

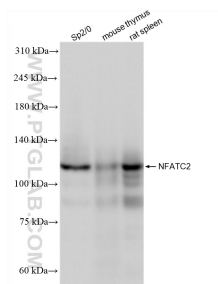
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

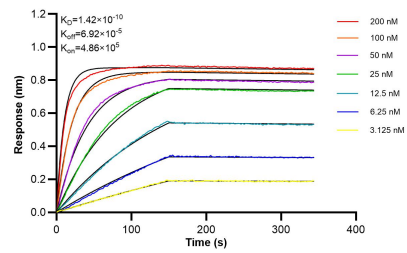
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87895-1-RR (NFATC2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87895-1-RR against Human NFATC2 were performed. The affinity constant is 0.142 nM.