For Research Use Only

NFATC2 Monoclonal antibody

Catalog Number: 66917-1-Ig



Purification Method:

Basic Information

Catalog Number: GenBank Accession Number:

66917-1-lg BC136418 Protein G purification

GeneID (NCBI): CloneNo.: 150ul, Concentration: 913 µg/ml by 4773 1F3B2

Bradford method using BSA as the Recommended Dilutions: standard: nuclear factor of activated T-cells, WB 1:1000-1:4000

cytoplasmic, calcineurin-dependent 2 IHC 1:50-1:500 Mouse Calculated MW:

925 aa, 100 kDa Isotype: lgG1 Observed MW: 135-140 kDa Immunogen Catalog Number:

AG17990

Applications

Tested Applications: Positive Controls:

FC. IHC. WB. ELISA WB: Ramos cells, Daudi cells, Jurkat cells Species Specificity:

IHC: human breast cancer tissue, human lymphoma Human, mouse 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. 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.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

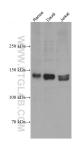
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

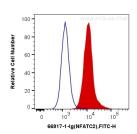
in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com

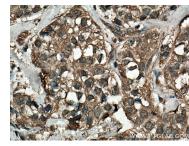
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66917-1-Ig (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 AffiniPure Goat Anti-Mouse IgC(H+L) at dilution 1:1000 (red), or 0.2 ug Mouse IgC1 Isotype Control (66360-1-1g, Clone: T1F8D3F 10) (blue). Cells were fixed with 49% 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).