

CoraLite® Plus 488-conjugated NFATC2 Monoclonal antibody

Catalog Number: **CL488-66917**

Basic Information

Catalog Number: CL488-66917	GenBank Accession Number: BC136418	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 4773	CloneNo.: 1F3B2
Source: Mouse	UNIPROT ID: Q13469	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG1	Full Name: nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG17990	Calculated MW: 925 aa, 100 kDa	
	Observed MW: 135-140 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : HepG2 cells,
Species Specificity: Human, mouse	

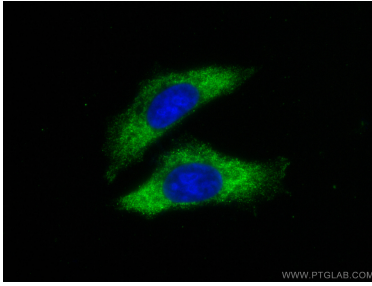
Background Information

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. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol)
fixed HepG2 cells using CoraLite® Plus 488
NFATC2 antibody (CL488-66917, Clone: 1F3B2) at
dilution of 1:200.