

For Research Use Only

CoraLite®594-conjugated STAT2 Monoclonal antibody



Catalog Number:CL594-66485

Basic Information

Catalog Number: CL594-66485	GenBank Accession Number: BC051284	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 6773	CloneNo.: 1G12C4
Source: Mouse	UNIPROT ID: P52630	Recommended Dilutions: IF 1:200-1:800
Isotype: IgG1	Full Name: signal transducer and activator of transcription 2, 113kDa	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG10168	Calculated MW: 851 aa, 98 kDa	
	Observed MW: 113 kDa	

Applications

Tested Applications: FC (Intra), IF/ICC	Positive Controls: IF : Ramos cells,
Species Specificity: Human, mouse, rat	

Background Information

STAT2, also named as p113, belongs to the transcription factor STAT family. It is a signal transducer and activator of transcription that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize and associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of IF stimulated genes, which drive the cell in an antiviral state. It also interacts with CRSP2, CRSP6, Simian virus 5 protein V, rabies virus phosphoprotein, IFNAR1 and IFNAR2. Its interaction with dengue virus NS5 inhibits the phosphorylation of STAT2, and, when all viral proteins are present (polyprotein), STAT2 is targeted for degradation. The calculated molecular weight of STAT2 is 98 kDa, but phosphorylated STAT2 is about 100-113 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

For technical support and original validation data for this product please contact:

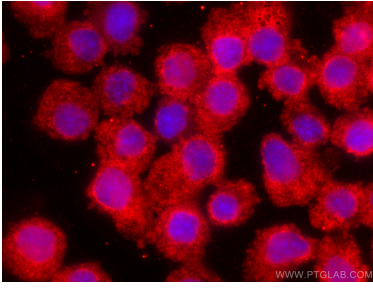
T: 4006900926

E: Proteintech-CN@ptglab.com

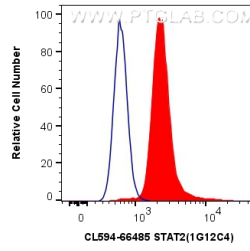
W: ptgcn.com

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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed Ramos cells using CoraLite®594 STAT2 antibody (CL594-66485, Clone: 1G12C4) at dilution of 1:400.



1X10⁶ Ramos cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human STAT2 (CL594-66485, Clone:1G12C4) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).