

For Research Use Only

# CoraLite® Plus 647-conjugated Phospho-STAT1 (Tyr701) Recombinant antibody

Catalog Number: CL647-82674-10



## Basic Information

<b>Catalog Number:</b> CL647-82674-10	<b>GenBank Accession Number:</b> BC002704	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6772	<b>CloneNo.:</b> 1C5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P42224	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm
<b>Isotype:</b> IgG	<b>Full Name:</b> signal transducer and activator of transcription 1, 91kDa	
	<b>Calculated MW:</b> 83 kDa	
	<b>Observed MW:</b> 84-91 kDa	

## Applications

**Tested Applications:**  
FC (Intra)

**Species Specificity:**  
human

## Background Information

STAT1 (signal transducers and activators of transcription 1) is a member of the STAT protein family. STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. The phosphorylation of STAT1 at Tyr701 promotes the dimerization of STAT1 and its translocation into the nucleus where it binds the GAS promoter to allow the transcription of inflammatory response genes (PMID: 31408005). The transcript of STAT1 undergoes alternative splicing, resulting in two isoforms: STAT1 $\alpha$  (91 kDa) and STAT1 $\beta$  (84 kDa) (PMID: 20159032).

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

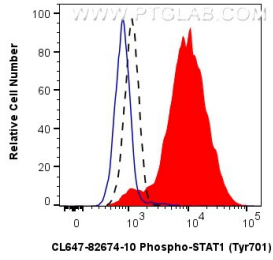
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



1X10<sup>6</sup> THP-1 cells untreated (dashed lines) or treated with IFN gamma which intracellularly stained with 0.25 ug Coralite® Plus 647 Phospho-Stat1 (Tyr701) Recombinant Antibody (CL647-82674-10, Clone:1C5)(red), or 0.25 ug Coralite® Plus 647 Rabbit IgG Isotype Control RecAb (CL647-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.