

For Research Use Only

# CoraLite®555-conjugated STAT4 Monoclonal antibody



Catalog Number:CL555-67568

## Basic Information

<b>Catalog Number:</b> CL555-67568	<b>GenBank Accession Number:</b> BC031212	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6775	<b>CloneNo.:</b> 4A8C9
<b>Source:</b> Mouse	<b>Full Name:</b> signal transducer and activator of transcription 4	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 748 aa, 86 kDa	<b>Excitation/Emission maxima wavelengths:</b> 555 nm / 570 nm
<b>Immunogen Catalog Number:</b> AG19545	<b>Observed MW:</b> 86 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF : HepG2 cells,
<b>Species Specificity:</b> Human, Mouse, Rat	

## Background Information

The JAK/STAT pathway is an extensive signaling pathway downstream of cytokine receptors. STATs are cytosolic proteins with a common structure consisting of an N-terminal oligomerization domain, which favors formation of STAT dimers, followed by a DNA-binding domain and a C-terminal SRC homology-2 (SH2) domain, which is involved in association between STATs and receptors[PMID:22383755]. Signal Transducer and Activator of Transcription 4 (STAT4) is a transcription factor that is activated by IL-12 signaling and promotes Th1-cell differentiation and IFN-γ production [PMID:21998209].

## Storage

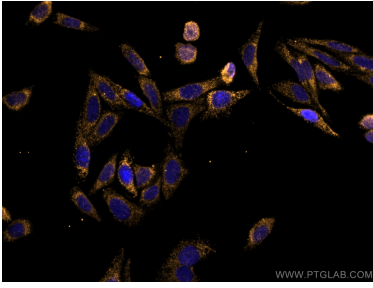
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

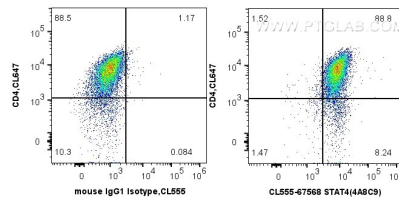
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite®555 STAT4 antibody (CL555-67568, Clone: 4A8C9) at dilution of 1:200.



1X10<sup>6</sup> mouse Th1 were intracellularly stained with 0.8 ug CoraLite®555 Anti-Human STAT4 (CL555-67568, Clone:4A8C9) (red), or 0.8 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).