

For Research Use Only

# CoraLite®555-conjugated STAT4 Monoclonal antibody



Catalog Number:CL555-67568

## Basic Information

Catalog Number:

CL555-67568

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG19545

GenBank Accession Number:

BC031212

GeneID (NCBI):

6775

UNIPROT ID:

Q14765

Full Name:

signal transducer and activator of transcription 4

Calculated MW:

748 aa, 86 kDa

Observed MW:

86 kDa

Purification Method:

Protein G purification

CloneNo.:

4A8C9

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima  
wavelengths:

557 nm / 570 nm

## Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

Human, Mouse, Rat

Positive Controls:

IF/ICC : HepG2 cells,

## 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- $\gamma$  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

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

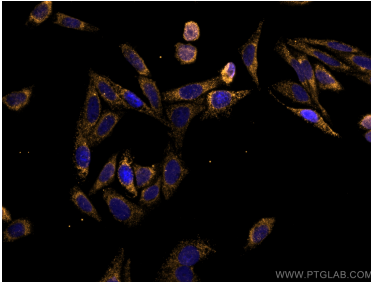
T: 4006900926

E: Proteintech-CN@ptglab.com

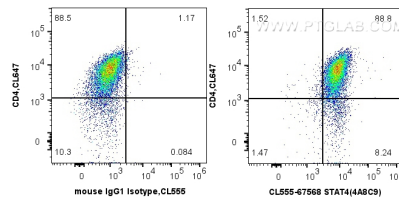
W: ptgcn.com

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## Selected Validation Data



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



1X10<sup>6</sup> mouse Th1 cells 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).