

For Research Use Only

# CoraLite® Plus 488-conjugated STAT5B Monoclonal antibody



Catalog Number: CL488-66427

## Basic Information

Catalog Number:

CL488-66427

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG2709

GenBank Accession Number:

BC020868

GeneID (NCBI):

6777

ENSEMBL Gene ID:

ENSG00000173757

UNIPROT ID:

P51692

Full Name:

signal transducer and activator of  
transcription 5B

Calculated MW:

787 aa, 90 kDa

Observed MW:

90 kDa

Purification Method:

Protein A purification

CloneNo.:

1D9B11

Recommended Dilutions:

IF 1:50-1:500

Excitation/Emission maxima  
wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

FC (Intra), IF/ICC

Species Specificity:

human

Positive Controls:

IF : HepG2 cells,

## Background Information

STAT5B belongs to the transcription factor STAT family. In response to cytokines and growth factors, 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. STAT5B carries out a dual function: signal transduction and activation of transcription. STAT5B mediates the signal transduction triggered by various cell ligands, such as IL2, IL4, CSF1, and different GH. It has been shown to be involved in diverse biological processes, such as TCR signaling, apoptosis, adult mammary gland development, and sexual dimorphism of liver gene expression. Despite the 95% homology between the immunogen (Ag2709) and the STAT5A protein, our WB detection showed that this antibody does not recognize the STAT5A fusion protein (Ag19546).

## 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:

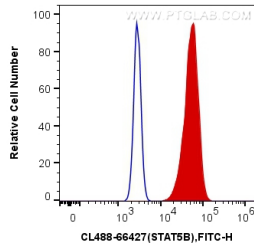
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.4  $\mu$ g CoraLite® Plus 488 Anti-Human STAT5B (CL488-66427, Clone:1D9B11) (red), or 0.4  $\mu$ g Mouse IgG2a Isotype Control (CL488-66360-2, Clone: K11A1B2A2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite® Plus 488 STAT5B antibody (CL488-66427, Clone: 1D9B11) at dilution of 1:200, CL594-Phalloidin (red).