

For Research Use Only

CoraLite® Plus 488-conjugated STAT3 Monoclonal antibody

Catalog Number: CL488-60199

Featured Product

1 Publications



Basic Information

Catalog Number:

CL488-60199

Concentration:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG0360

GenBank Accession Number:

BC000627

GeneID (NCBI):

6774

UNIPROT ID:

P40763

Full Name:

signal transducer and activator of transcription 3 (acute-phase response factor)

Calculated MW:

770 aa, 88 kDa

Observed MW:

88 kDa

Purification Method:

Protein A purification

CloneNo.:

3G2D12

Recommended Dilutions:

IF/ICC: 1:50-1:500

FC (Intra): 0.40 µg per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Cited Applications:

IF

Species Specificity:

human, mouse, rat

Cited Species:

mouse

Positive Controls:

IF/ICC : L02 cells, HepG2 cells

FC (Intra) : HepG2 cells, HeLa cells

Background Information

Signal transducer and activator of transcription 3 (acute-phase response factor) (STAT3, synonyms: APRF, FLJ20882, MGC16063) is a member of the STAT protein 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. STAT3 is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. STAT3 mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of STAT3. This antibody is a mouse monoclonal antibody raised against residues near the N terminus of human STAT3. STAT3 exists three isoforms and the molecular weight of each isoform respectively is 83 kDa, 87 kDa and 88 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Jiayu Ren	39158709	Cell Mol Life Sci	IF

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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

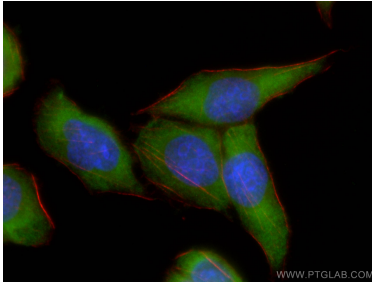
T: 4006900926

E: Proteintech-CN@ptglab.com

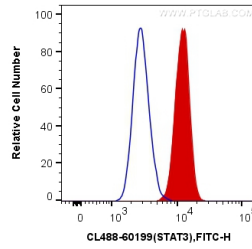
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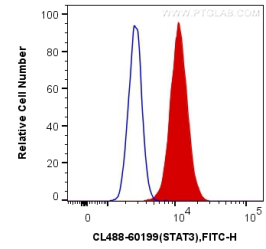
Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed L02 cells using Coralite® Plus 488-conjugated STAT3 antibody (CL488-60199, Clone: 3G2D12) at dilution of 1:100, CL594-Phalloidin (red).



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Coralite® Plus 488 Anti-Human STAT3 (CL488-60199, Clone:3G2D12) (red), or 0.4 ug 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).



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Coralite® Plus 488 Anti-Human STAT3 (CL488-60199, Clone:3G2D12) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).