

For Research Use Only

CoraLite®488-conjugated STAT3 Monoclonal antibody



Catalog Number: CL488-60199

Featured Product

Basic Information

Catalog Number: CL488-60199	GenBank Accession Number: BC000627	Purification Method: Protein A purification
Size: 100ul , Concentration: 2000 µg/ml by Nanodrop and 2000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6774	CloneNo.: 3G2D12
Source: Mouse	Full Name: signal transducer and activator of transcription 3 (acute-phase response factor)	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG2a	Calculated MW: 770 aa, 88 kDa	Excitation/Emission maxima wavelengths: 488 nm/515 nm
Immunogen Catalog Number: AG0360	Observed MW: 88 kDa	

Applications

Tested Applications: FC (Intra), IF	Positive Controls: IF : L02 cells, HepG2 cells
Species Specificity: human, mouse, rat	

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.

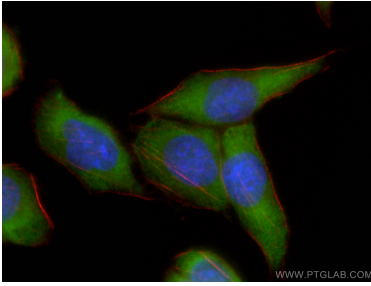
Storage

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

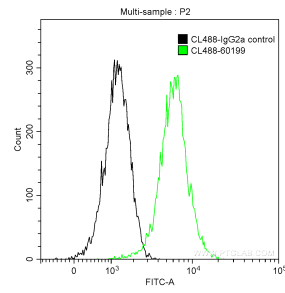
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



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



1×10^6 HepG2 cells were intracellularly stained with 0.5 μ g CoraLite®488 Anti-Human STAT3 (CL488-60199, Clone:3G2D12) (green), and 0.5 μ g Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).