

For Research Use Only

# CoraLite®594-conjugated G3BP1 Polyclonal antibody



Catalog Number: CL594-13057

Featured Product

## Basic Information

<b>Catalog Number:</b> CL594-13057	<b>GenBank Accession Number:</b> BC006997	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10146	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> GTPase activating protein (SH3 domain) binding protein 1	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 466 aa, 52 kDa	
<b>Immunogen Catalog Number:</b> AG3728	<b>Observed MW:</b> 55-60 kDa	

## Applications

<b>Tested Applications:</b> FC (Intra), IF	<b>Positive Controls:</b> IF : sodium arsenite treated HeLa cells,
<b>Species Specificity:</b> human, rat, mouse	

## Background Information

GAP SH3 Binding Protein 1 (G3BP1), also named as G3BP, is an effector of stress granule (SG) assembly. SG biology plays an important role in the pathophysiology of TDP-43 in ALS and FTLD-U. G3BP1 can be used as a marker of SG. It has been shown to function downstream of Ras and play a role in RNA metabolism, signal transduction, and proliferation. G3BP1 is a ubiquitously expressed protein that localizes to the cytoplasm in proliferating cells and to the nucleus in non-proliferating cells. G3BP1 has recently been implicated in cancer biology.

## 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

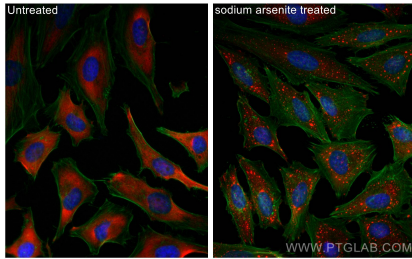
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using CoraLite@594 G3BP1 antibody (CL594-13057) at dilution of 1:200, CL488-Phalloidin (green).

1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug CoraLite@594 Anti-Human G3BP1 (CL594-13057) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).