

For Research Use Only

# CoraLite® Plus 488-conjugated G3BP1 Monoclonal antibody



Catalog Number:CL488-66486

## Basic Information

**Catalog Number:**

CL488-66486

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG3728

**GenBank Accession Number:**

BC006997

**GeneID (NCBI):**

10146

**UNIPROT ID:**

Q13283

**Full Name:**

GTPase activating protein (SH3 domain) binding protein 1

**Calculated MW:**

466 aa, 52 kDa

**Observed MW:**

68 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1E4A2

**Recommended Dilutions:**

IF 1:50-1:500

**Excitation/Emission maxima wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF/ICC

**Species Specificity:**

Human, mouse, rat, pig

**Positive Controls:**

IF : sodium arsenite treated HeLa cells,

## 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

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

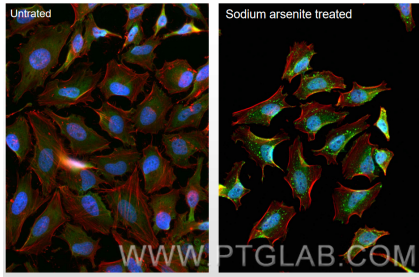
T: 4006900926

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

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

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using Coralite® Plus 488 G3BP1 antibody (CL488-66486, Clone: 1E4A2 ) at dilution of 1:200, CL594-Phalloidin (red).