

For Research Use Only

# G3BP1 Monoclonal antibody

Catalog Number: 66486-1-Ig

Featured Product

60 Publications



## Basic Information

**Catalog Number:**

66486-1-Ig

**Concentration:**

2000 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 A purification

**CloneNo.:**

1E4A2

**Recommended Dilutions:**

WB 1:5000-1:50000

IHC 1:50-1:500

IF/ICC 1:500-1:2000

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, ELISA

**Cited Applications:**

WB, IF, IP, ColP, RIP

**Species Specificity:**

Human, mouse, rat, pig

**Cited Species:**

human, mouse, rat, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** LNCaP cells, RAW 264.7 cells, pig brain tissue, HeLa cells, mouse brain tissue, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, PC-12 cells, NIH/3T3 cells, 4T1 cells

**IHC:** human testis tissue, human colon tissue, human lymphoma tissue, rat brain tissue

**IF/ICC:** 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 FTL-D-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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Bin Dai	34560101	J Biol Chem	IF
Parimal Samir	31511697	Nature	WB,IF
Niclas Stefan Rasmussen	31681284	Front Immunol	

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

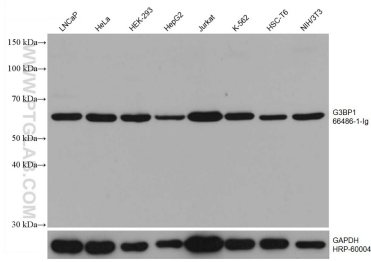
T: 4006900926

E: Proteintech-CN@ptglab.com

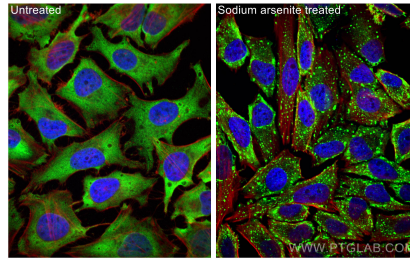
W: ptgcn.com

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

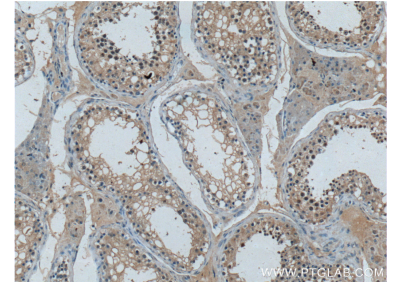
## Selected Validation Data



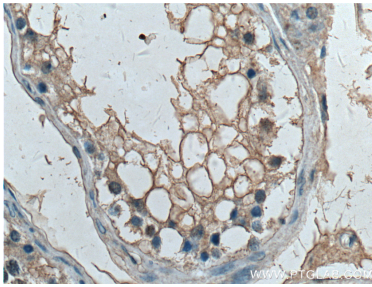
Various lysates were subjected to SDS PAGE followed by western blot with 66486-1-Ig (G3BP1 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using G3BP1 antibody (66486-1-Ig, Clone: 1E4A2) at dilution of 1:1000 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66486-1-Ig (G3BP antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66486-1-Ig (G3BP antibody) at dilution of 1:200 (under 40x lens).