

# G3BP1 Rabbit mAb

Catalog No.: A3968

Recombinant

5 Publications

## Basic Information

### Observed MW

68kDa

### Calculated MW

52kDa

### Category

Primary antibody

### Applications

ELISA, WB, IF/ICC, IP

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC0875

## Background

This gene encodes one of the DNA-unwinding enzymes which prefers partially unwound 3'-tailed substrates and can also unwind partial RNA/DNA and RNA/RNA duplexes in an ATP-dependent fashion. This enzyme is a member of the heterogeneous nuclear RNA-binding proteins and is also an element of the Ras signal transduction pathway. It binds specifically to the Ras-GTPase-activating protein by associating with its SH3 domain. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined.

## Recommended Dilutions

WB 1:500 - 1:1000

IF/ICC 1:50 - 1:200

IP 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

## Immunogen Information

### Gene ID

10146

### Swiss Prot

Q13283

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 350-450 of human G3BP1 (Q13283).

### Synonyms

G3BP; HDH-VIII; G3BP1

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

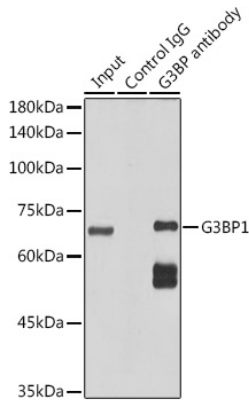
Affinity purification

### Storage

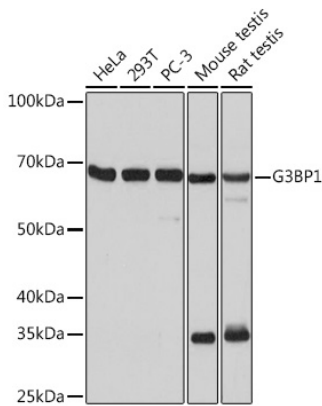
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

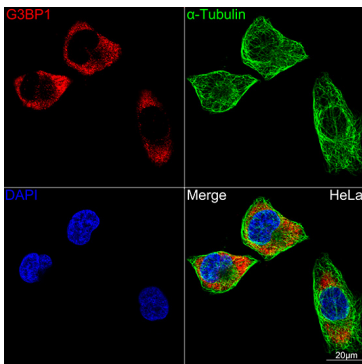
## Validation Data



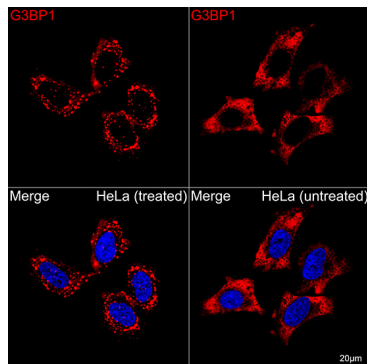
Immunoprecipitation analysis of 300  $\mu$ g extracts of HeLa cells using 3  $\mu$ g G3BP1 Rabbit mAb (A3968). Western blot was performed from the immunoprecipitate using G3BP1 Rabbit mAb (A3968) at a dilution of 1:1000.



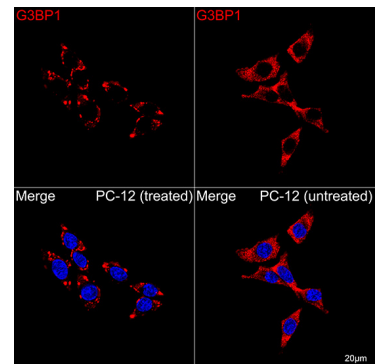
Western blot analysis of various lysates using G3BP1 Rabbit mAb (A3968) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Confocal imaging of HeLa cells using G3BP1 Rabbit mAb (A3968, dilution 1:100) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



Confocal imaging of HeLa cells (treated with sodium arsenite) and HeLa cells (untreated) using G3BP1 Rabbit mAb (A3968, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of PC-12 cells (treated with sodium arsenite) and PC-12 cells (untreated) using G3BP1 Rabbit mAb (A3968, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.