G3BP1  
Polyclonal ANTIBODY  
Catalog Number: 13057-2-AP  
Featured Product 31 Publications

**Basic Information**
- **Catalog Number:** 13057-2-AP
- **Size:** 37 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG3728
- **GenBank Accession Number:** BC006997
- **GeneID (NCBI):** 10146
- **Full Name:** GTPase activating protein (SH3 domain) binding protein 1
- **Calculated MW:** 466aa, 52 kDa
- **Observed MW:** 55-60 kDa

**Recommended Dilutions:**
- **WB:** 1:5000-1:50000
- **IP:** 0.5-4.0 μg for IP and 1:1000-1:2000 for WB
- **IHC:** 1:100-1:500
- **IF:** 1:50-1:300

**Applications**
- **Tested Applications:** FC, IF, IHC, IP, WB, ELISA
- **Cited Applications:** IF, IHC, IP, WB
- **Species Specificity:** human, rat, mouse
- **Cited Species:** human, 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 ubiquitously expressed in the nucleus and to the cytoplasm in proliferating cells and to the nucleus in non-proliferating cells. G3BP1 has recently been implicated in cancer biology.

**Notable Publications**

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<th>Author</th>
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<td>Qin Xia</td>
<td>26516189</td>
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<td>Nicolás Cifuentes-Muñoz</td>
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<td>Joana Margarida Silva</td>
<td>30442948</td>
<td>Cell Death Differ</td>
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**Storage**
- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol 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 (toll free in USA), or 1(312) 455-8498 (outside USA)
- E: proteintechnical@ptglab.com
- W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Various lysates were subjected to SDS PAGE followed by western blot with 13057-2-AP (G3BP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

WB result of G3BP1 antibody (13057-2-AP; 1:10000) incubated at room temperature for 1.5 hours with sh-Control and sh-G3BP1 transfected HEK-293 cells.

Immunohistochemistry of paraffin-embedded human testis tissue slide using 13057-2-AP (G3BP1 antibody) at dilution of 1:200 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunohistochemistry of paraffin-embedded human testis tissue slide using 13057-2-AP (G3BP1 antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).


Immunofluorescent analysis of (−20°C Ethanol) fixed HeLa cells using 13057-2-AP (G3BP1 antibody) at dilution of 1:200 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H)2.

100K) HeLa cells were stained with 0.2ug G3BP1 antibody (13057-2-AP red) and control antibody (blue). Fixed with 3%, ACN blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H) with dilution 1:1000.