**G3BP1 Polyclonal ANTIBODY**

**Catalog Number:** 13057-2-AP

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### 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

### Applications
- **Tested Applications:** FC, IF, IHC, IP, WB, ELISA
- **Cited Applications:** IF, IHC, IP, WB
- **Species Specificity:** human, rat, mouse
- **Recommended Dilutions:**
  - **WB:** 1:5000-1:50000
  - **IP:** 0.5-4.0 µg for IP and 1:500-1:2000 for WB
  - **IHC:** 1:50-1:500
  - **IF:** 1:50-1:500

### 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.

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qin Xia</td>
<td>26516189</td>
<td>Hum Mol Genet</td>
<td>IF</td>
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<tr>
<td>Nicolás Cifuentes-Munoz</td>
<td>28978704</td>
<td>J Virol</td>
<td>IF</td>
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<tr>
<td>Mai Yamakawa</td>
<td>25389546</td>
<td>Hum Mol Genet</td>
<td>IF</td>
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### Storage
- **Storage:** Store at -20ºC. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20ºC storage**

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

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
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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; 1:100000; 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 (pH9).

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 (pH9).

Immunofluorescent analysis of HepG2 cells using 13057-2-AP (G3BP1 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.


Immunofluorescent analysis of Ethacrynic acid treated HepG2 cells using 13057-2-AP (G3BP1 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.


Immunofluorescent analysis of Ethacrynic acid treated HepG2 cells using 13057-2-AP (G3BP1 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.


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