For Research Use Only

G3BP2 Monoclonal antibody

Catalog Number:68580-1-Ig Featured Product

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
68580-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG9222

GenBank Accession Number:
BC011731

GeneID (NCBI):
9908

UNIPROT ID:
Q9UN86

Full Name:
GTPase activating protein (SH3 domain) binding protein 2

Calculated MW:
482aa,54 kDa; 449aa,51 kDa

Observed MW:
54 kDa

Purification Method:
Protein G purification

CloneNo.:
2E5G3

Recommended Dilutions:
WB 1:5000-1:50000
IF/ICC 1:400-1:1600

Applications

Tested Applications:
WB, IF/ICC, ELISA

Species Specificity:
human, rat

Positive Controls:

WB : HeLa cells, A549 cells, HCT 116 cells, HepG2 cells, rat brain tissue, SCaBER cells, K-562 cells, MOLT-4 cells, HT-29 cells

IF/ICC : sodium arsenite treated HeLa cells,

Background Information

Stress granules (SGs) are cytoplasmic mRNA-protein condensates formed in response to cellular stressors, such as oxidative stress, ultraviolet radiation, and viral infection (1). The Ras-GTPase-activating protein-binding proteins (G3BPs), consisting of G3BP1 and G3BP2, are key nucleating factors essential for SG formation. They function to protect RNAs from harmful conditions. G3BP2 is mainly distributed in the cytoplasm and participates in the formation of stress granules, cell differentiation, proliferation, and signal transduction. Accumulating evidence has demonstrated that aberrant expression of G3BP2 contributes to cancer initiation and progression, such as high expression of G3BP2 increasing cell stemness, metastasis and chemoresistance in breast cancer.

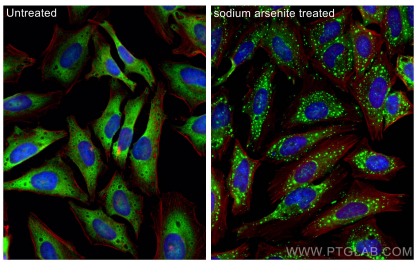
Storage

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

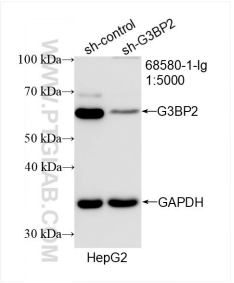
***** 20ul sizes contain 0.1% BSA**

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
W: ptglab.com

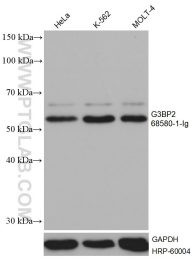
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using G3BP2 antibody (68580-1-Ig, Clone: 2E5G3) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).



WB result of G3BP2 antibody (68580-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-G3BP2 transfected HepG2 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 68580-1-Ig (G3BP2 antibody) at dilution of 1:20000 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.