KD-Validated Anti-G3BP1 Rabbit Monoclonal Antibody

Catalog #: 63223

Aliases

G3BP1; G3BP Stress Granule Assembly Factor 1; G3BP; HDH-VIII; Ras-GTPase-Activating Protein SH3-Domain-Binding Protein; GTPase Activating Protein (SH3 Domain) Binding Protein 1; Ras GTPase-Activating Protein-Binding Protein 1; GAP SH3 Domain-Binding Protein 1; ATP-Dependent DNA Helicase VIII; DNA Helicase VIII; G3BP-1; RasGAP-Associated Endoribonuclease G3BP; GAP Binding Protein; EC 3.6.4.12; EC 3.6.4.13; HDH VIII; EC 3.6.1

Background

Gene Name: G3BP1
NCBI Gene Entry: 10146
UniProt Entry: Q13283

Application Information

Molecular Weight: Predicted, 52 kDa, observed, 68 kDa
Clonality: Rabbit monoclonal antibody
Clone ID: 24GB4580
Species Reactivity: Human, mouse, rat
Applications Tested: Western blotting (WB), flow cytometry (FCM), immunocytochemistry (IC)

Immunogen

A synthesized peptide derived from human G3BP

Isotype

Rabbit IgG

Storage Buffer

Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.

Storage

Store at -20 °C for one year.

Recommended Dilutions

Western Blotting (WB): 1:1,000-1:5,000
Flow Cytometry (FCM): 1:2,000
Immunocytochemistry (IC): 1:100-1:1,000

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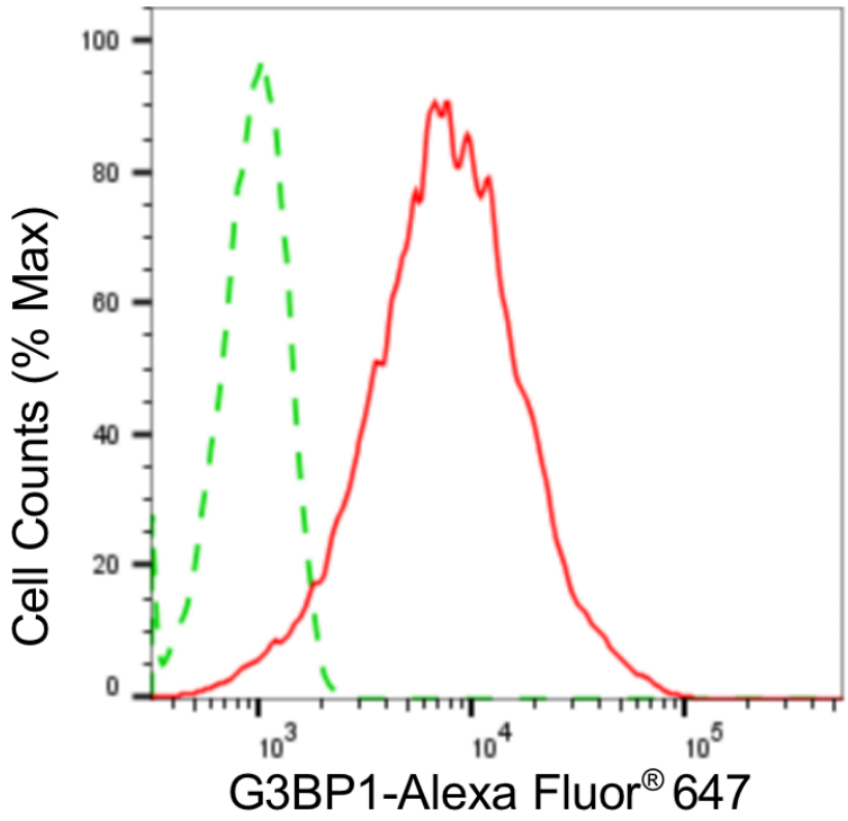
Note: This product is for research use only.

Validation Data



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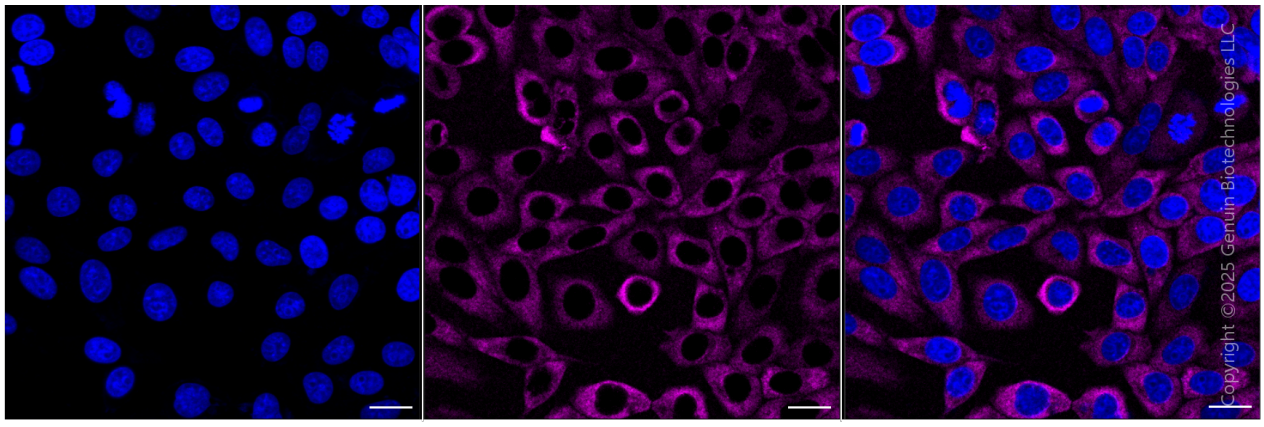
Flow cytometric analysis of G3BP1 expression in HepG2 cells using anti-G3BP1 antibody (Cat#63223, 1:2,000). Green, isotype control; red, G3BP1.



Immunocytochemical staining of HepG2 cells with anti-G3BP1 antibody(Cat#63223, 1:1,000) . Nuclei were stained blue with DAPI; G3BP1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.

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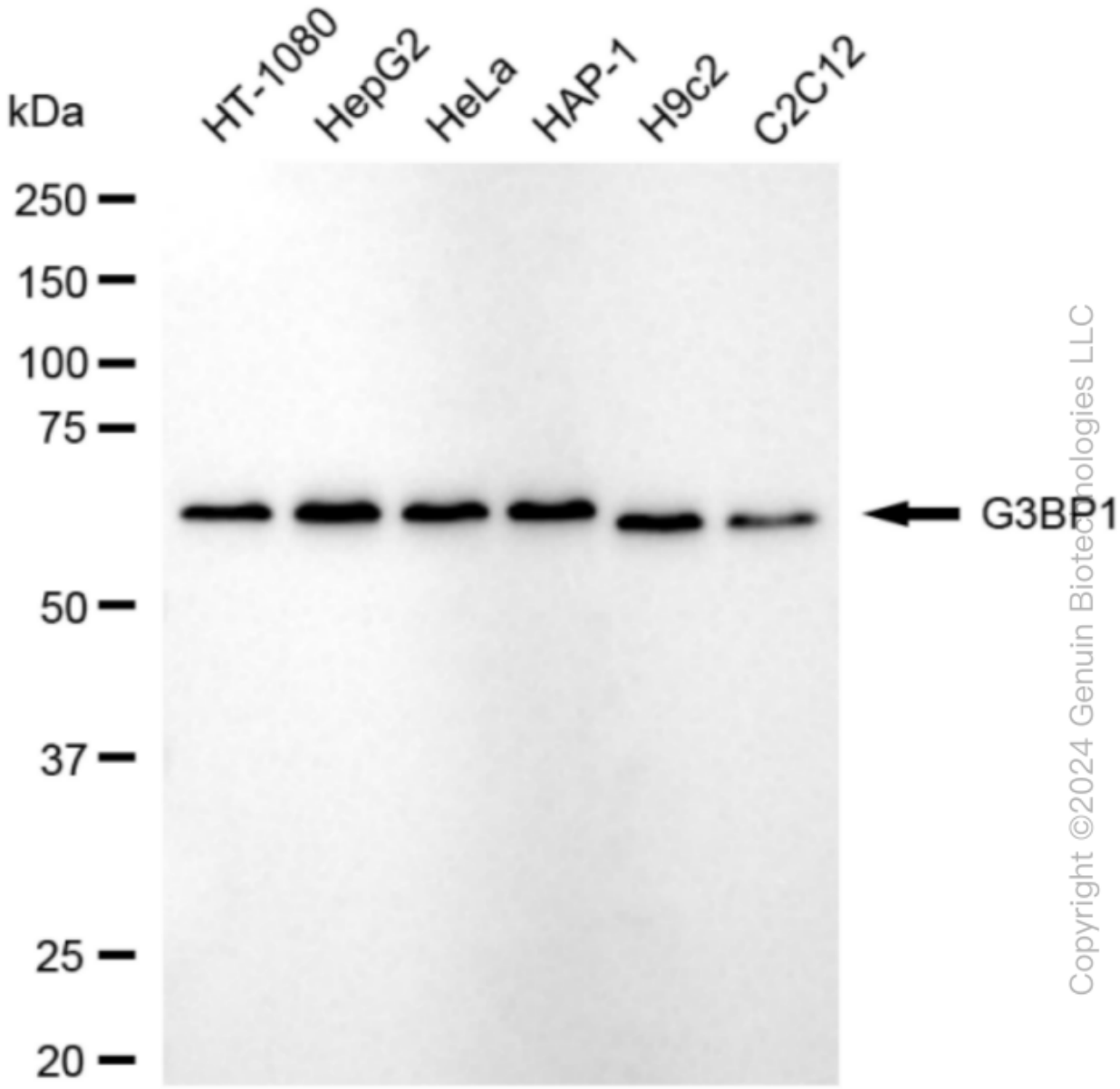

Western blotting analysis using anti-G3BP1 antibody (Cat#63223). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-G3BP1 antibody (Cat#63223, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).

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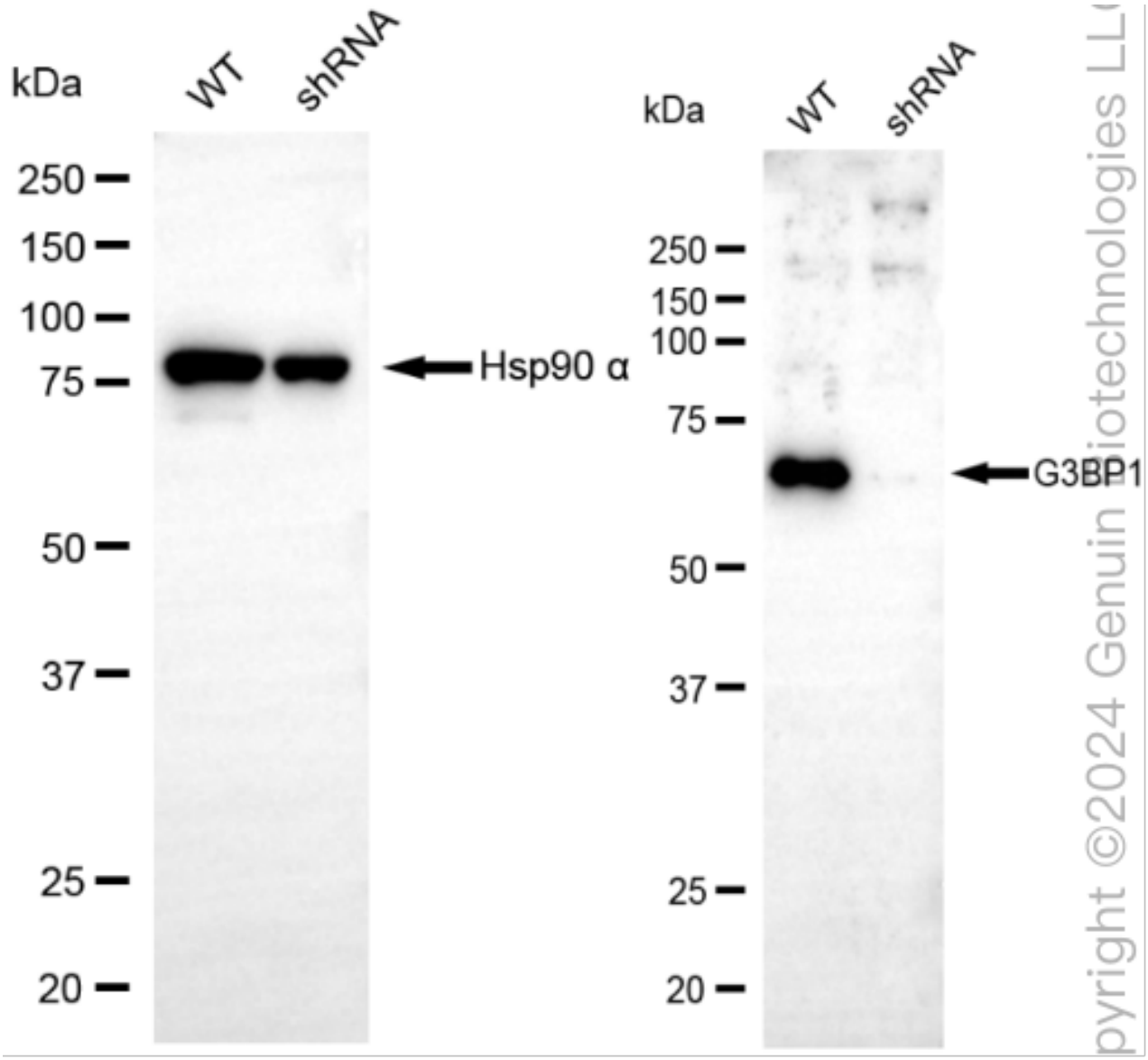

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Western blotting analysis using anti-G3BP1 antibody (Cat#63223). G3BP1 expression in wild type (WT) and G3BP1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-G3BP1 antibody (Cat#63223, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).

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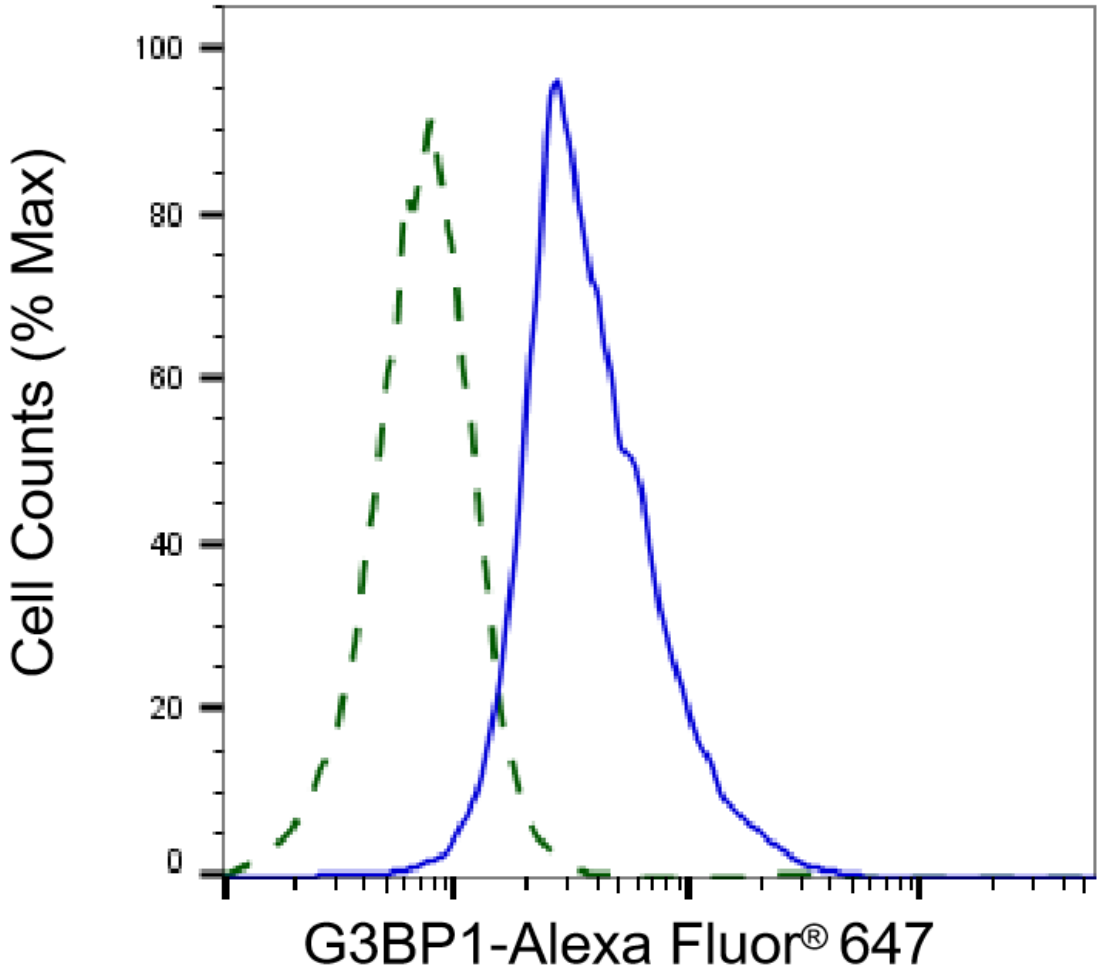

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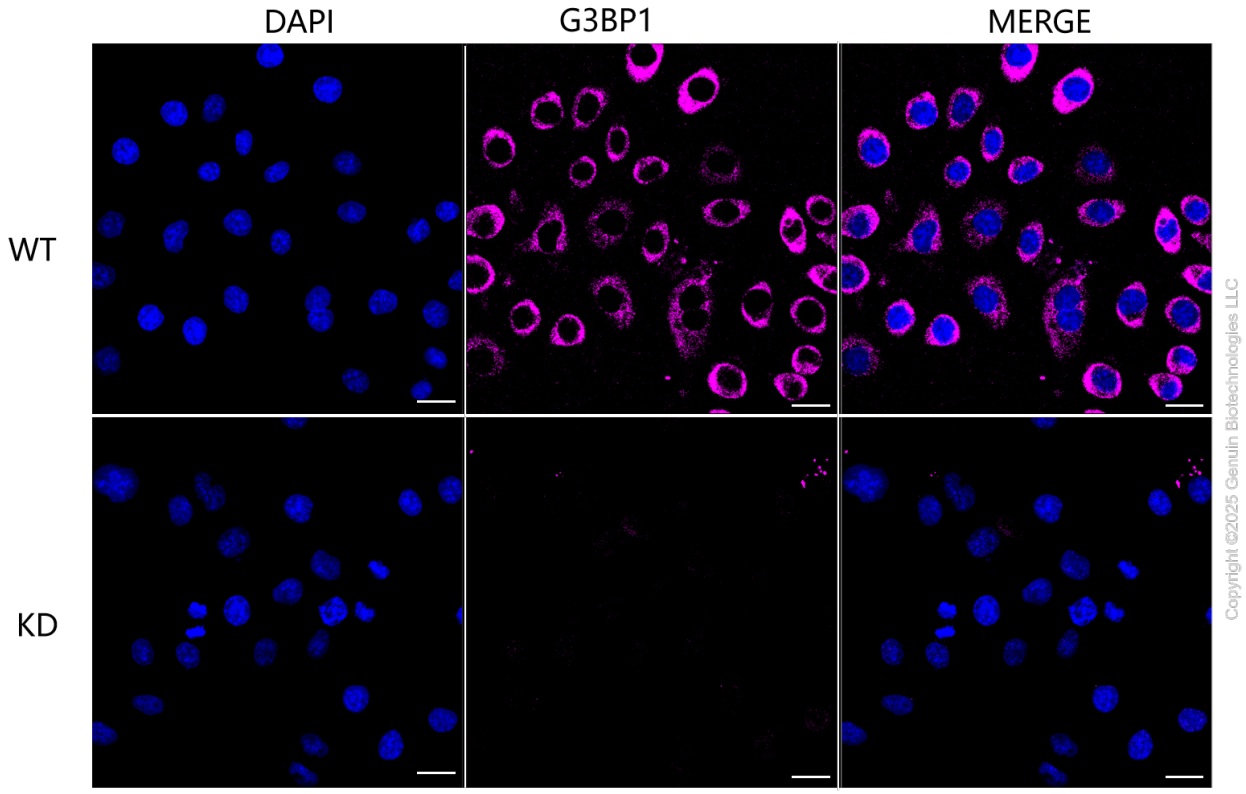
Validation of G3BP1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with anti-G3BP1 antibody (Cat#63223, 1:2,000) and analyzed using BD flow cytometer.



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Immunocytochemical staining of HeLa cells using anti-G3BP1 antibody (Cat#63223, 1:1,000), Top panel: wild-type (WT); Bottom panal: G3BP1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; G3BP1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.