

bsm-62130R

[Primary Antibody]

G3BP1 Recombinant Rabbit mAb

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ANTIBODIES

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DATASHEET

Host: Rabbit

Clonality: Recombinant

GeneID: 10146

Target: G3BP1

Isotype: IgG

CloneNo.: 18C17

SWISS: Q13283

Immunogen: A synthesized peptide derived from human G3BP1: 401-466/466.

Purification: affinity purified by Protein A

Storage: 10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol. Store at 4°C for short term. Store at -20°C for long term. Avoid repeated freeze/thaw cycles.

Background: Protein involved in various processes, such as stress granule formation and innate immunity. Plays an essential role in stress granule formation. Stress granules are membraneless compartments that store mRNAs and proteins, such as stalled translation pre-initiation complexes, in response to stress. Promotes formation of stress granules phase-separated membraneless compartment by undergoing liquid-liquid phase separation (LLPS) upon unfolded RNA-binding: functions as a molecular switch that triggers RNA-dependent LLPS in response to a rise in intracellular free RNA concentrations.

Applications: **WB** (1:1000-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1µg/Test)
ICC/IF (1:50-200)
IP (1:20-50)

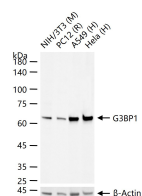
Reactivity: Human, Mouse, Rat

Predicted MW.: 52 kDa

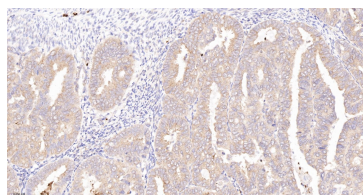
Observed MW.: 65 kDa

Subcellular Location: Cell membrane ,Cytoplasm
Location: ,Nucleus

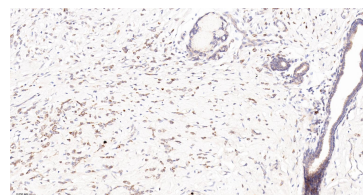
VALIDATION IMAGES



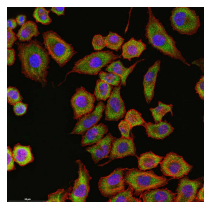
25 µg total protein per lane of various lysates (see on figure) probed with G3BP1 monoclonal antibody, unconjugated (bsm-62130R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



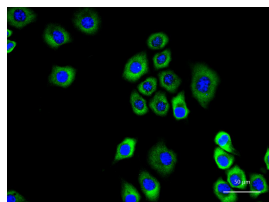
Paraformaldehyde-fixed, paraffin embedded Human Endometrial Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with G3BP1 Monoclonal Antibody, Unconjugated (bsm-62130R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



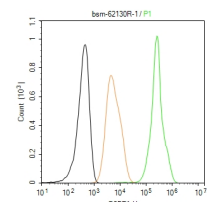
Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with G3BP1 Monoclonal Antibody, Unconjugated (bsm-62130R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed HeLa (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (G3BP1) monoclonal Antibody, unconjugated (bsm-62130R) 1:100, 90 min at 37°C; followed by BF488 conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-BF488) at 37°C for 90 min, then stained with Phalloidin/BF555 for 30 min at room temperature; DAPI (blue, C02-04002) was used to stain the cell nuclei.



4% Paraformaldehyde-fixed HeLa (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (G3BP1) monoclonal Antibody, unconjugated (bsm-62130R) 1:100, 90 min at 37°C; followed by BF488 conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-BF488) at 37°C for 90 min. DAPI (blue, C02-04002) was used to stain the cell nuclei.



The HeLa (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Rabbit Anti-G3BP1 antibody (bsm-62130R); 1 µg/10⁶ cells; Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

(black): PBS. Acquisition of 20,000 events was performed.