

# Product Datasheet

## G3BP1 Antibody NBP1-18922

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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Updated 11/11/2020 v.20.1

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**NBP1-18922**

## G3BP1 Antibody

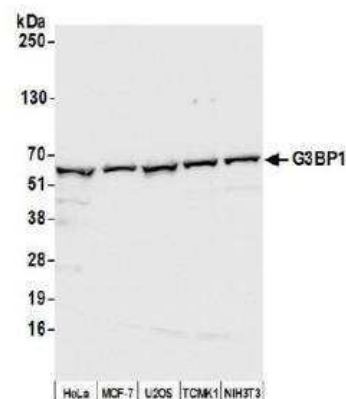
Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA

Product Description	
Host	Rabbit
Gene ID	10146
Gene Symbol	G3BP1
Species	Human, Mouse, Mammal
Reactivity Notes	Mammal reactivity reported in scientific literature (PMID: 28794026).
Immunogen	The immunogen recognized by this antibody maps to a region between residue 275 and 325 of human GTPase activating protein (SH3 domain) binding protein 1 using the numbering given in entry NP_005745.1 (GeneID 10146).

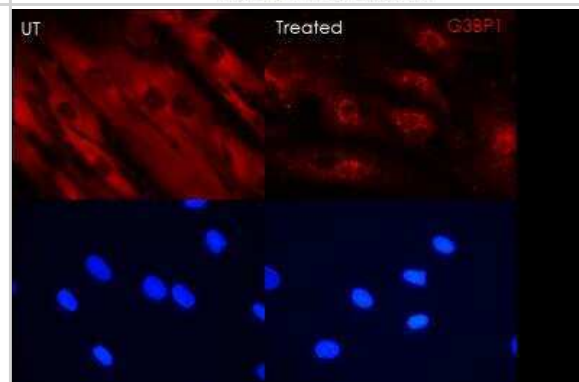
Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunocytochemistry/Immunofluorescence 1:1000, Immunoprecipitation 2-10 ug/mg lysate
Application Notes	G3BP1 antibody validated for ICC/IF from a verified customer review.

## Images

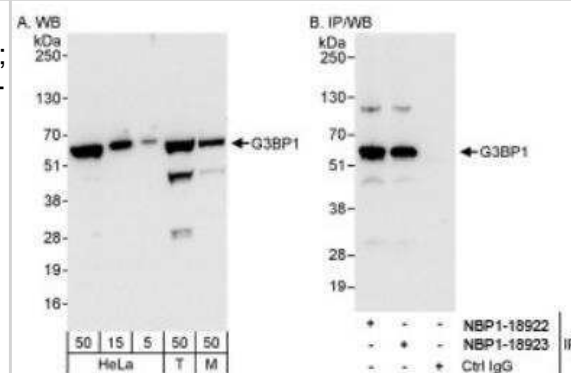
Western Blot: G3BP1 Antibody [NBP1-18922] - Whole cell lysate (50 ug) from HeLa, MCF-7, U2OS, TCMK-1, and NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-G3BP1 antibody used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 1 second.



Immunocytochemistry/Immunofluorescence: G3BP1 Antibody [NBP1-18922] - G3BP1 in red (Alexa fluor 555) and nucleus in blue (DAPI). Human primary fibroblasts untreated in the left and treated in the right with G3BP1 stress granules labeling. Alexa fluor 555 1s exposure and DAPI 1s exposure. Fixation: PFA 4% 10min RT, permeabilization: Triton 0.1% TBS, blocking: Donkey Serum 10% TBS-T, Ab dilution: 1:1000, Secondary Ab: Alexa fluor 555 Donkey anti-rabbit 1:600, Mounting medium with DAPI. Image submitted by a verified customer review.



Western Blot: G3BP1 Antibody [NBP1-18922] - Whole cell lysate from HeLa (5, 15 and 50 mcg for WB; 1 mg for IP, 20% of IP loaded), 293T (T; 50 mcg) and mouse NIH3T3 (M; 50mcg) cells. Affinity purified rabbit anti-G3BP1 antibody used for WB at 0.04 mcg/ml (A) and 1 mcg/ml (B) and used for IP at 3 mcg/mg lysate. G3BP1 was also immunoprecipitated by rabbit anti-G3BP1 antibody NBP1-18923, which recognizes a downstream epitope.



## Publications

Honda M, Oki S, Kimura R Et Al. High-depth spatial transcriptome analysis by photo-isolation chemistry Nature communications 2021-07-20 [PMID: 34285220] (IF/IHC)

Bussiere LD Examination of viral infection and host response to define therapeutic potential of oncolytic mammalian orthoreovirus Thesis 2020-01-01 (ICC/IF, Human)

Choudhury P, Bussiere L, Miller CL. Mammalian Orthoreovirus Factories Modulate Stress Granule Protein Localization by Interaction with G3BP1. J. Virol. 2017-08-09 [PMID: 28794026] (Mammal)

Fujimura K, Sasaki AT, Anderson P. Selenite targets eIF4E-binding protein-1 to inhibit translation initiation and induce the assembly of non-canonical stress granules. Nucleic Acids Res. 2012-06-20 [PMID: 22718973]



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### **Products Related to NBP1-18922**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7156	Goat anti-Rabbit IgG (H+L) Secondary Antibody
NBP2-24891	Rabbit IgG Isotype Control
NBP1-50925-50ug	Recombinant Human G3BP1 His Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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