

# Product Datasheet

## G3BP1 Antibody (2F3) - Azide and BSA Free H00010146-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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### Publications: 8

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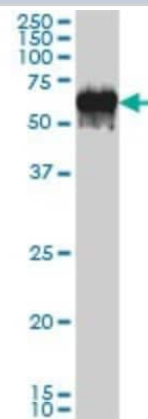


**H00010146-M01****G3BP1 Antibody (2F3) - Azide and BSA Free**

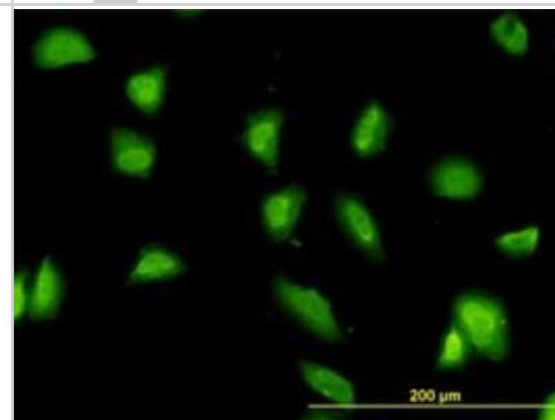
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	2F3
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse G3BP1 Antibody (2F3) - Azide and BSA Free (H00010146-M01) is a monoclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-G3BP1 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	10146
<b>Gene Symbol</b>	G3BP1
<b>Species</b>	Human, Mouse, Rat, Monkey
<b>Reactivity Notes</b>	Monkey reactivity reported in scientific literature (PMID: 31216693).
<b>Specificity/Sensitivity</b>	G3BP - Ras-GTPase-activating protein SH3-domain-binding protein
<b>Immunogen</b>	G3BP (AAH06997, 214 a.a. ~ 303 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. KPEPVLEETAPEDAQKSSSPAPADIAQTVQEDLRTFSWASVTSKNLPPSGAVP VTGIPPHVVKVPASQPRPESKPESQIPPQRPQRDQRV
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Knockdown Validated
<b>Application Notes</b>	Antibody reactive against recominant protein and cell lysate for Western Blot. Has also been used for immunofluoresence, immunohistochemistry (paraffin), RNAi validation and ELISA.

## Images

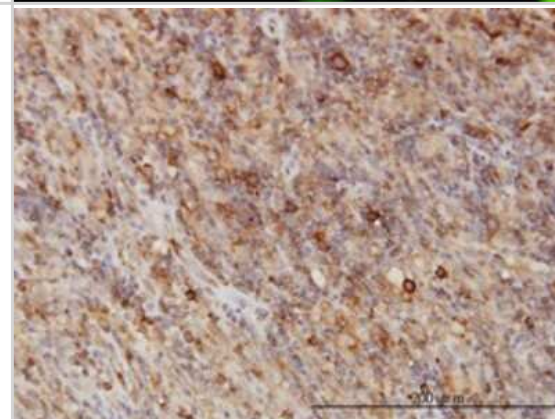
Western Blot: G3BP1 Antibody (2F3) [H00010146-M01] - G3BP1 monoclonal antibody (M01), clone 2F3 Analysis of G3BP expression in A-431.



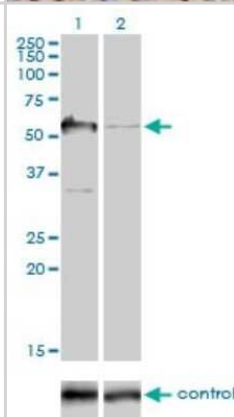
Immunocytochemistry/Immunofluorescence: G3BP1 Antibody (2F3) [H00010146-M01] - Analysis of monoclonal antibody to G3BP on HeLa cell. Antibody concentration 10 ug/ml.



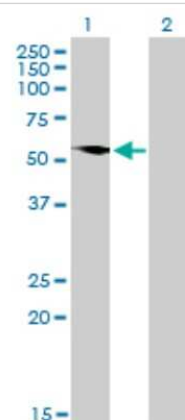
Immunohistochemistry-Paraffin: G3BP1 Antibody (2F3) [H00010146-M01] - Analysis of monoclonal antibody to G3BP on formalin-fixed paraffin-embedded human lymphoma. Antibody concentration 1 ug/ml.



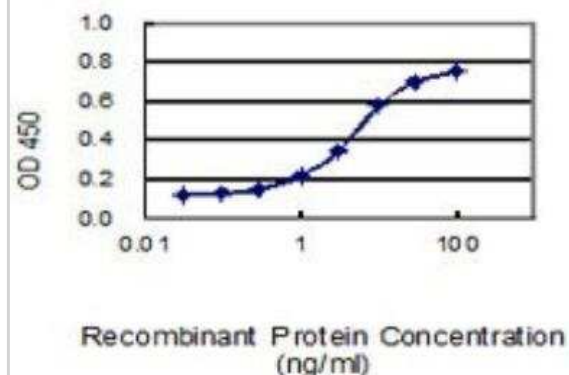
Western Blot: G3BP1 Antibody (2F3) [H00010146-M01] - Analysis of G3BP over-expressed 293 cell line, cotransfected with G3BP Validated Chimera RNAi ( Cat # H00010146-R01V ) (Lane 2) or non-transfected control (Lane 1). Blot probed with G3BP monoclonal antibody (M01), clone 2F3 (Cat # H00010146-M01 ). GAPDH ( 36.1 kDa ) used as specificity and loading control.



Western Blot: G3BP1 Antibody (2F3) [H00010146-M01] - Analysis of G3BP expression in transfected 293T cell line by G3BP monoclonal antibody (M01), clone 2F3. Lane 1: G3BP transfected lysate(52.2 KDa). Lane 2: Non-transfected lysate.



ELISA: G3BP1 Antibody (2F3) [H00010146-M01] - Detection limit for recombinant GST tagged G3BP1 is 0.1 ng/ml as a capture antibody.



## Publications

Ming Z, Tian X, Jia-Qing X et al. The stress granule protein G3BP1 promotes pre-condensation of cGAS to allow rapid responses to DNA. *EMBO Rep.* 2021-11-15 [PMID: 34779554]

Hong C, Xin L, Feng Z et al. G3BP1 Inhibition Alleviates Intracellular Nucleic Acid-Induced Autoimmune Responses. *J Immunol.* 2021-05-03 [PMID: 33941659]

Lutz MM th, Worth MP, Hinchman MM et al. Mammalian orthoreovirus Infection is Enhanced in Cells Pre-Treated with Sodium Arsenite Viruses. 2019-06-17 [PMID: 31216693] (ICC/IF, WB, Monkey)

Liu ZS, Cai H, Xue W et al. G3BP1 promotes DNA binding and activation of cGAS. *Nat Immunol* 2018-12-03 [PMID: 30510222]

Martin S, Bellora N, Gonzalez-Vallinas J et al. Preferential Binding of a stable G3BP Ribonucleoprotein Complex to Intron-retaining Transcripts in Mouse Brain and Modulation of their Expression in the Cerebellum. *J Neurochem* 2016-08-11 [PMID: 27513819]

Martin S, Zekri L, Metz A et al. Deficiency of G3BP1, the stress granules assembly factor, results in abnormal synaptic plasticity and calcium homeostasis in neurons. *J Neurochem.* 2013-02-04 [PMID: 23373770]

Kaehler C, Isensee J, Hucho T et al. 5-Fluorouracil affects assembly of stress granules based on RNA incorporation. *Nucleic Acids Res.* 2014-04-11 [PMID: 24728989]

Norazit A, Meedeniya AC, Nguyen MN, Mackay-Sim A. Progressive loss of dopaminergic neurons induced by unilateral rotenone infusion into the medial forebrain bundle. *Brain Res* 1360:119-29. 2010-11-11 [PMID: 20807515]



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### **Products Related to H00010146-M01**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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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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