

**G3BP Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant G3BP.****Catalog # AT2137a****Specification**

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**G3BP Antibody (monoclonal) (M01) - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">Q13283</a>
Other Accession	<a href="#">BC006997</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	52164

**G3BP Antibody (monoclonal) (M01) - Additional Information****Gene ID** 10146**Other Names**

Ras GTPase-activating protein-binding protein 1, G3BP-1, ATP-dependent DNA helicase VIII, hDH VIII, GAP SH3 domain-binding protein 1, G3BP1, G3BP

**Target/Specificity**

G3BP (AAH06997, 214 a.a. ~ 303 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

IHC~~1:100~500

IF~~1:50~200

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

G3BP Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

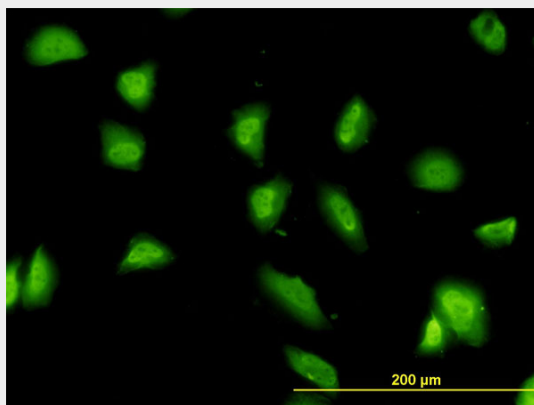
**G3BP Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

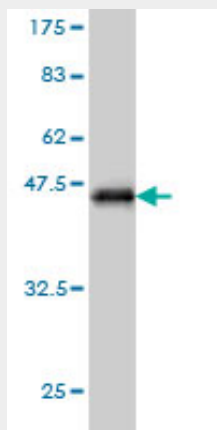
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

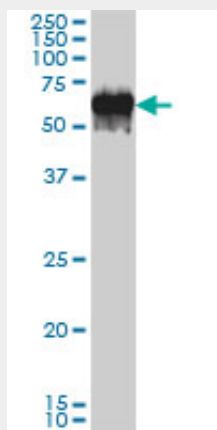
## G3BP Antibody (monoclonal) (M01) - Images



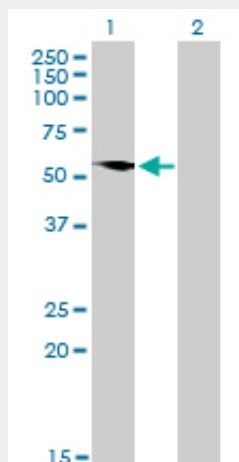
Immunofluorescence of monoclonal antibody to G3BP on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.53 KDa) .



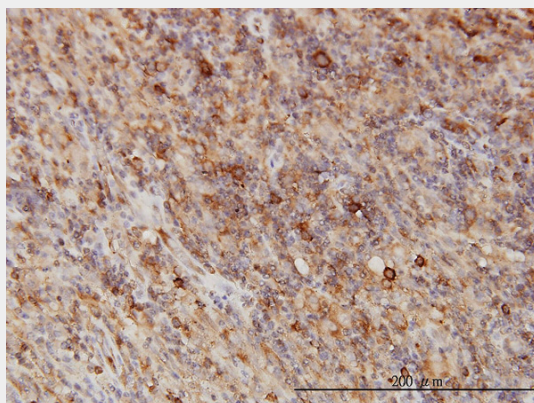
G3BP monoclonal antibody (M01), clone 2F3 Western Blot analysis of G3BP expression in A-431 (Cat # AT2137a )



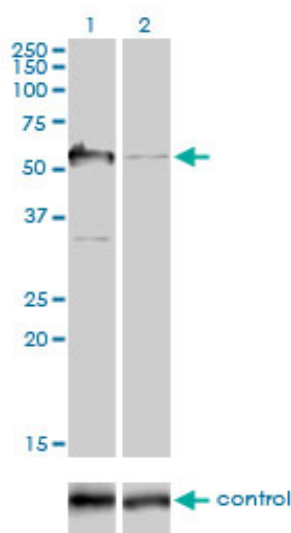
Western Blot analysis of G3BP expression in transfected 293T cell line by G3BP monoclonal antibody (M01), clone 2F3.

Lane 1: G3BP transfected lysate(52.2 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to G3BP on formalin-fixed paraffin-embedded human lymphoma. [antibody concentration 1 ug/ml]



Detection limit for recombinant GST tagged G3BP is approximately 1ng/ml as a capture antibody.

### **G3BP Antibody (monoclonal) (M01) - Background**

This gene encodes one of the DNA-unwinding enzymes which prefers partially unwound 3'-tailed substrates and can also unwind partial RNA/DNA and RNA/RNA duplexes in an ATP-dependent fashion. This enzyme is a member of the heterogeneous nuclear RNA-binding proteins and is also an element of the Ras signal transduction pathway. It binds specifically to the Ras-GTPase-activating protein by associating with its SH3 domain. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined.

### **G3BP Antibody (monoclonal) (M01) - References**

1.5-Fluorouracil affects assembly of stress granules based on RNA incorporation. Kaehler C, Isensee J, Hucho T, Lehrach H, Krobitsch S. *Nucleic Acids Res.* 2014 Apr 11;42(7):2111-21. [doi: 10.1093/nar/nkt001](https://doi.org/10.1093/nar/nkt001).  
2. Deficiency of G3BP1, the stress granules assembly factor, results in abnormal synaptic plasticity and calcium homeostasis in neurons. Martin S, Zekri L, Metz A, Maurice T, Chebli K, Vignes M, Tazi JJ. *Neurochem.* 2013 Feb 4;110(1):1-11. [doi: 10.1111/jnc.12189](https://doi.org/10.1111/jnc.12189).  
3. Progressive loss of dopaminergic neurons induced by unilateral rotenone infusion into the medial forebrain bundle. Norazit A, Meedeniya AC, Nguyen MN, Mackay-Sim A. *Brain Res.* 2010 Aug 28;1344:1-11. [Epub ahead of print]