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G3BP Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant G3BP.
Catalog # AT2137a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q13283
Other Accession	BC006997
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2F3
Calculated MW	52164

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 E~~N/A
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.

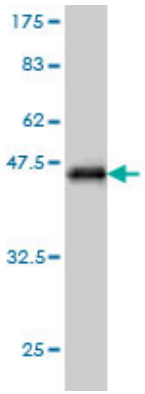
Background

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.

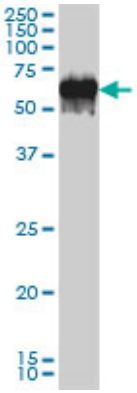
References

1.5-Fluorouracil affects assembly of stress granules based on RNA incorporation.Kaehler C, Isensee J, Hucho T, Lehrach H, Krobitsch SNucleic Acids Res. 2014 Apr 11.2.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. doi: 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. [Epub ahead of print]

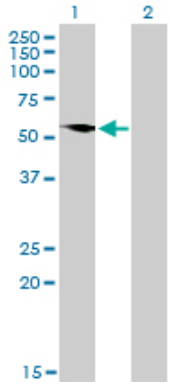
Images



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

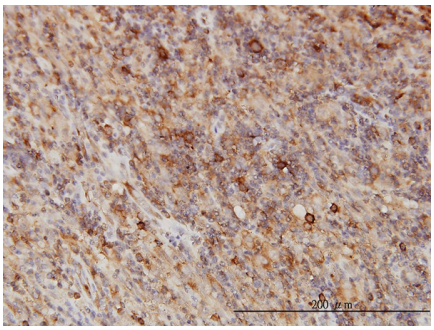


G3BP monoclonal antibody (M01), clone 2F3 Western Blot analysis of G3BP expression in A-431 ((Cat # AT2137a)

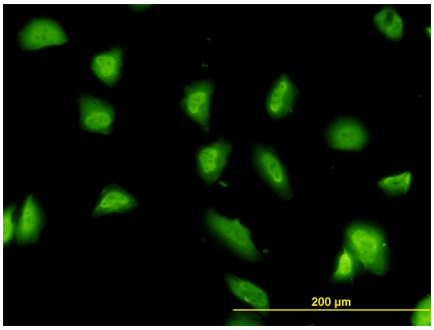


Western Blot analysis of G3BP expression in transfected 293T cell line by G3BP monoclonal antibody (M01), clone 2F3.

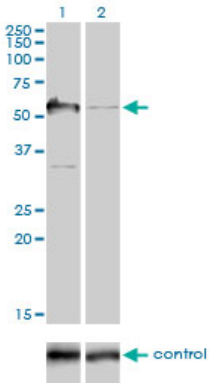
Lane 1: G3BP transfected lysate(52.2 KDa).
Lane 2: Non-transfected lysate.



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



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



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.