

Datasheet

G3BP monoclonal antibody (M01), clone 2F3

Catalog Number: H00010146-M01

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a partial recombinant G3BP.

Clone Name: 2F3

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

Sequence:

KPEPVLEETAPEDAQKSSSPAPADIAQTVQEDLRTFS
WASVTSKNLPPSGAVPVTGIPPHVVKVPASQPRPESK
PESQIPPQRQRDQRV

Host: Mouse

Reactivity: Human

Applications: ELISA, IF, IHC-P, RNAi-Ab, S-ELISA, WB-Ce, WB-Re, WB-Tr
(See our web site product page for detailed applications information)

Protocols: See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Isotype: IgG1 Kappa

Storage Buffer: In 1x PBS, pH 7.4

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

Entrez GeneID: 10146

Gene Symbol: G3BP1

Gene Alias: G3BP, HDH-VIII, MGC111040

Gene Summary: 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. [provided by RefSeq]

References:

1. Preferential Binding of a stable G3BP Ribonucleoprotein Complex to Intron-retaining Transcripts in Mouse Brain and Modulation of their Expression in the Cerebellum. Martin S, Bellora N, Gonzalez-Vallinas J, Irimia M, Chebli K, DeToledo M, Raabe M, Eyraas E, Urlaub H, Blencowe BJ, Tazi J. J Neurochem. 2016 Aug 11. [Epub ahead of print]
2. 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.
3. 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 J J Neurochem. 2013 Feb 4. doi: 10.1111/jnc.12189.