



Anti-G3BP1 Antibody

Alternative Names: G3BP, HDH-VIII, ATP-dependent DNA helicase VIII, GAP SH3 domain-binding protein 1, G3BP-1

Catalogue Number: AB19-10113-100ug

Size: 100 µg

Background Information

Ras GTPase-activating protein-binding protein 1 (G3BP1) is a RNA-binding protein which along with G3BP2 regulates stress granule (SG) formation. Both G3BP1 & 2 contain disordered regions and an ordered nuclear transport factor 2 (NTF2)-like dimerisation domain at the N-terminal that is that is required for SG formation.

G3BP1 has endoribonuclease and helicase activity and is part of the Ras signal transduction pathway, binding specifically to Ras-GTPase-activating protein via its SH3 domain. G3BP1 has multiple phosphorylation sites which may be involved in its function in regulating stress granules. SG-like structures have been reported in neurodegenerative diseases such as amyotrophic lateral sclerosis (ALS), so it is believed that G3BP1 may play a role in such neurodegenerative diseases.

Product Information

Antibody Type:	Polyclonal	Host:	Rabbit
Isotype:	IgG	Species Reactivity:	Human, Mouse, Duck
Immunogen:	Partial length recombinant human G3BP1 from the C-terminal region		
Format:	100 µg in 100 µl PBS with 0.02% sodium azide, 50% glycerol, pH7.3.		
Storage Conditions:	Store at -20°C. Avoid freeze / thaw cycles.		
Applications:	WB IHC IF WB 1:500-2000. IHC 1:50-200. IF 1:50-200.		

Additional Information

Subcellular location:	Stress granule, Nucleus, Cytosol, Perikaryon	MW:	52kDa (Intended as a general guide and does not allow for all isoforms and species variations)
Gene ID	10146	Uniprot ID:	Q13283