

## anti-Human G3BP Monoclonal Antibody | anti-G3BP antibody

G3BP Rabbit mAb

| CATALOG # | HOST               | REACTIVITY | APPLICATIONS                     |
|-----------|--------------------|------------|----------------------------------|
| AAA314366 | Recombinant Rabbit | Human      | Immunofluorescence, Western Blot |

### PRODUCT SYNONYMS

G3BP; Monoclonal Antibody; G3BP Rabbit mAb; HDH-VIII; anti-G3BP antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                        |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Host                                           | Recombinant Rabbit                                                                                     |
| Reactivity                                     | Human                                                                                                  |
| Clonality                                      | Monoclonal                                                                                             |
| Isotype                                        | Rabbit IgG                                                                                             |
| Clone Number                                   | S09-5B9                                                                                                |
| Purity/Purification                            | Affinity Purified                                                                                      |
| Form/Format                                    | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA                  |
| Concentration                                  | 0.3mg/ml (varies by lot)                                                                               |
| Applicable Applications for anti-G3BP antibody | IF (Immunofluorescence), WB (Western Blot)                                                             |
| Immunogen                                      | A synthetic peptide of human G3BP                                                                      |
| Conjugation                                    | Unconjugated                                                                                           |
| Modification                                   | Unmodification                                                                                         |
| Preparation and Storage                        | Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles. |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescence of G3BP(green) in HeLa cells using G3BP Rabbit mAb at dilution 1/200, and DAPI(blue)



#### WB (Western Blot)

Western blot detection of G3BP in K562, C6, HeLa cell lysates using G3BP Rabbit mAb(1:1000 diluted). Predicted band size: 52kDa. Observed band size: 68kDa.

### ADDITIONAL INFORMATION

#### Related Product Information for anti-G3BP antibody

ATP- and magnesium-dependent helicase (PubMed:9889278). Unwinds preferentially partial DNA and RNA duplexes having a 17 bp annealed portion and either a hanging 3' tail or hanging tails at both 5'- and 3'-ends (PubMed:9889278). Unwinds DNA/DNA, RNA/DNA, and RNA/RNA substrates with comparable efficiency (PubMed:9889278). Acts unidirectionally by moving in the 5' to 3' direction along the bound single-stranded DNA (PubMed:9889278). Phosphorylation-dependent sequence-specific endoribonuclease in vitro (PubMed:11604510). Cleaves exclusively between cytosine and adenine and cleaves MYC mRNA preferentially at the 3'-UTR (PubMed:11604510). May be a regulated effector of stress granule assembly (PubMed:12642610, PubMed:20180778).

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 5031703                                                                                                                                                                                                                                            |
| NCBI GeneID                      | 10146                                                                                                                                                                                                                                              |
| NCBI Accession #                 | NP_005745.1                                                                                                                                                                                                                                        |
| NCBI GenBank Nucleotide #        | NM_005754.2                                                                                                                                                                                                                                        |
| UniProt Accession #              | Q13283                                                                                                                                                                                                                                             |
| Molecular Weight                 | 52,164 Da                                                                                                                                                                                                                                          |
| NCBI Official Full Name          | ras GTPase-activating protein-binding protein 1                                                                                                                                                                                                    |
| NCBI Official Synonym Full Names | GTPase activating protein (SH3 domain) binding protein 1                                                                                                                                                                                           |
| NCBI Official Symbol             | G3BP1                                                                                                                                                                                                                                              |
| NCBI Official Synonym Symbols    | G3BP; HDH-VIII                                                                                                                                                                                                                                     |
| NCBI Protein Information         | ras GTPase-activating protein-binding protein 1; G3BP-1; GAP binding protein; ATP-dependent DNA helicase VIII; GAP SH3 domain-binding protein 1; RasGAP-associated endoribonuclease G3BP; Ras-GTPase-activating protein SH3-domain-binding protein |
| UniProt Protein Name             | Ras GTPase-activating protein-binding protein 1                                                                                                                                                                                                    |
| UniProt Gene Name                | <b>G3BP1</b>                                                                                                                                                                                                                                       |
| UniProt Synonym Gene Names       | G3BP; G3BP-1; hDH VIII                                                                                                                                                                                                                             |
| UniProt Entry Name               | G3BP1_HUMAN                                                                                                                                                                                                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/g3bp-antibody-clone-s09-5b9-immunofluorescence-western-blot-elisa/314366>