

**G3BP1 (phospho Ser232) Polyclonal Antibody**  
Catalog # AP67049**Specification****G3BP1 (phospho Ser232) Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q13283</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

**G3BP1 (phospho Ser232) Polyclonal Antibody - Additional Information**

Gene ID 10146

**Other Names**

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

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**G3BP1 (phospho Ser232) Polyclonal Antibody - Protein Information****Name** G3BP1 {ECO:0000303|PubMed:23279204, ECO:0000312|HGNC:HGNC:30292}**Function**

Protein involved in various processes, such as stress granule formation and innate immunity (PubMed: [12642610](http://www.uniprot.org/citations/12642610), PubMed: [20180778](http://www.uniprot.org/citations/20180778), PubMed: [23279204](http://www.uniprot.org/citations/23279204), PubMed: [30510222](http://www.uniprot.org/citations/30510222), PubMed: [30804210](http://www.uniprot.org/citations/30804210)). Plays an essential role in stress granule formation (PubMed: [12642610](http://www.uniprot.org/citations/12642610), PubMed: [20180778](http://www.uniprot.org/citations/20180778), PubMed: [23279204](http://www.uniprot.org/citations/23279204), PubMed: [32302570](http://www.uniprot.org/citations/32302570), PubMed: [32302571](http://www.uniprot.org/citations/32302571), PubMed: [32302572](http://www.uniprot.org/citations/32302572), PubMed: [34739333](http://www.uniprot.org/citations/34739333), PubMed: [12642610](http://www.uniprot.org/citations/12642610), PubMed: [20180778](http://www.uniprot.org/citations/20180778), PubMed: [23279204](http://www.uniprot.org/citations/23279204), PubMed: [30510222](http://www.uniprot.org/citations/30510222), PubMed: [30804210](http://www.uniprot.org/citations/30804210), PubMed: [32302570](http://www.uniprot.org/citations/32302570), PubMed: [32302571](http://www.uniprot.org/citations/32302571), PubMed: [32302572](http://www.uniprot.org/citations/32302572), 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href="http://www.uniprot.org/citations/35977029" target="\_blank">35977029</a>, PubMed:<a href="http://www.uniprot.org/citations/36183834" target="\_blank">36183834</a>, PubMed:<a href="http://www.uniprot.org/citations/36279435" target="\_blank">36279435</a>, PubMed:<a href="http://www.uniprot.org/citations/36692217" target="\_blank">36692217</a>, PubMed:<a href="http://www.uniprot.org/citations/37379838" target="\_blank">37379838</a>). Stress granules are membraneless compartments that store mRNAs and proteins, such as stalled translation pre-initiation complexes, in response to stress (PubMed:<a href="http://www.uniprot.org/citations/12642610" target="\_blank">12642610</a>, PubMed:<a href="http://www.uniprot.org/citations/20180778" target="\_blank">20180778</a>, PubMed:<a href="http://www.uniprot.org/citations/23279204" target="\_blank">23279204</a>, PubMed:<a href="http://www.uniprot.org/citations/27022092" target="\_blank">27022092</a>, PubMed:<a href="http://www.uniprot.org/citations/32302570" target="\_blank">32302570</a>, PubMed:<a href="http://www.uniprot.org/citations/32302571" target="\_blank">32302571</a>, PubMed:<a href="http://www.uniprot.org/citations/32302572" target="\_blank">32302572</a>, PubMed:<a href="http://www.uniprot.org/citations/36279435" target="\_blank">36279435</a>, PubMed:<a href="http://www.uniprot.org/citations/37379838" target="\_blank">37379838</a>). Promotes formation of stress granules phase-separated membraneless compartment by undergoing liquid-liquid phase separation (LLPS) upon unfolded RNA-binding: functions as a molecular switch that triggers RNA-dependent LLPS in response to a rise in intracellular free RNA concentrations (PubMed:<a href="http://www.uniprot.org/citations/32302570" target="\_blank">32302570</a>, PubMed:<a href="http://www.uniprot.org/citations/32302571" target="\_blank">32302571</a>, PubMed:<a href="http://www.uniprot.org/citations/32302572" target="\_blank">32302572</a>, PubMed:<a href="http://www.uniprot.org/citations/34739333" target="\_blank">34739333</a>, PubMed:<a href="http://www.uniprot.org/citations/36279435" target="\_blank">36279435</a>, PubMed:<a href="http://www.uniprot.org/citations/36692217" target="\_blank">36692217</a>). Also acts as an ATP- and magnesium-dependent helicase: unwinds DNA/DNA, RNA/DNA, and RNA/RNA substrates with comparable efficiency (PubMed:<a href="http://www.uniprot.org/citations/9889278" target="\_blank">9889278</a>). Acts unidirectionally by moving in the 5' to 3' direction along the bound single-stranded DNA (PubMed:<a href="http://www.uniprot.org/citations/9889278" target="\_blank">9889278</a>). 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:<a href="http://www.uniprot.org/citations/9889278" target="\_blank">9889278</a>). Plays an essential role in innate immunity by promoting CGAS and RIGI activity (PubMed:<a href="http://www.uniprot.org/citations/30510222" target="\_blank">30510222</a>, PubMed:<a href="http://www.uniprot.org/citations/30804210" target="\_blank">30804210</a>). Participates in the DNA-triggered cGAS/STING pathway by promoting the DNA binding and activation of CGAS (PubMed:<a href="http://www.uniprot.org/citations/30510222" target="\_blank">30510222</a>). Triggers the condensation of cGAS, a process probably linked to the formation of membrane-less organelles (PubMed:<a href="http://www.uniprot.org/citations/34779554" target="\_blank">34779554</a>). Enhances also RIGI-induced type I interferon production probably by helping RIGI at sensing pathogenic RNA (PubMed:<a href="http://www.uniprot.org/citations/30804210" target="\_blank">30804210</a>). May also act as a phosphorylation- dependent sequence-specific endoribonuclease in vitro: Cleaves exclusively between cytosine and adenine and cleaves MYC mRNA preferentially at the 3'-UTR (PubMed:<a href="http://www.uniprot.org/citations/11604510" target="\_blank">11604510</a>).

### Cellular Location

Cytoplasm, cytosol. Perikaryon {ECO:0000250|UniProtKB:P97855}. Cytoplasm, Stress granule. Nucleus Note=Cytoplasmic in proliferating cells (PubMed:11604510). Cytosolic and partially nuclear in resting cells (PubMed:11604510). Recruited to stress granules in response to arsenite treatment (PubMed:12642610, PubMed:20180778). The unphosphorylated form is recruited to stress granules (PubMed:12642610). HRAS signaling contributes to this process by regulating G3BP dephosphorylation (PubMed:12642610)

### Tissue Location

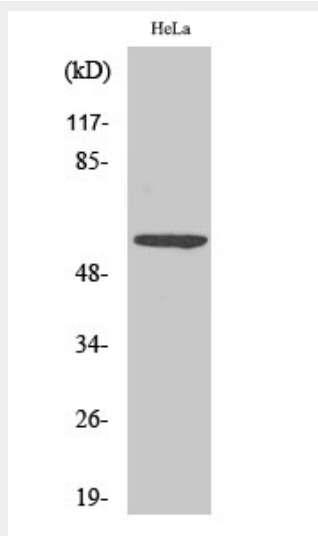
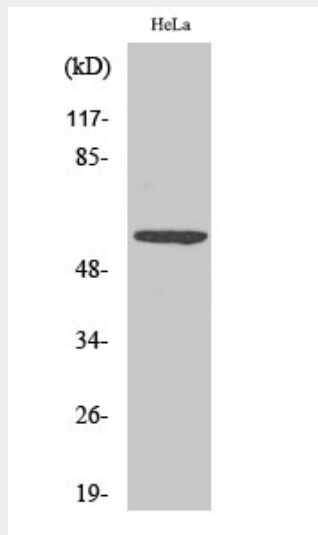
Ubiquitous..

## G3BP1 (phospho Ser232) Polyclonal Antibody - 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](#)

## G3BP1 (phospho Ser232) Polyclonal Antibody - Images



## G3BP1 (phospho Ser232) Polyclonal Antibody - Background

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).