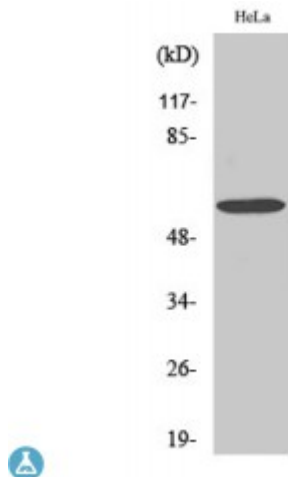


## Anti-G3BP1 antibody



<b>Description</b>	Rabbit polyclonal to G3BP1.
<b>Model</b>	STJ93173
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Simian
<b>Applications</b>	ELISA, IHC, WB
<b>Immunogen</b>	Synthesized peptide derived from human G3BP1 around the non-phosphorylation site of S232.
<b>Immunogen Region</b>	170-250 aa
<b>Gene ID</b>	<a href="#">10146</a>
<b>Gene Symbol</b>	<a href="#">G3BP1</a>
<b>Dilution range</b>	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:10000
<b>Specificity</b>	G3BP1 Polyclonal Antibody detects endogenous levels of G3BP1 protein.
<b>Tissue Specificity</b>	Ubiquitous.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	Ras GTPase-activating protein-binding protein 1 G3BP-1 ATP-dependent DNA helicase VIII hDH VIII GAP SH3 domain-binding protein 1
<b>Molecular Weight</b>	52/60 kDa
<b>Clonality</b>	Polyclonal

<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="https://www.ncbi.nlm.nih.gov/condensedbook/condensedbook.cgi?acc=HGNC:30292OMIM:608431">HGNC:30292OMIM:608431</a>
<b>Alternative Names</b>	Ras GTPase-activating protein-binding protein 1 G3BP-1 ATP-dependent DNA helicase VIII hDH VIII GAP SH3 domain-binding protein 1
<b>Function</b>	May be a regulated effector of stress granule assembly. Phosphorylation-dependent sequence-specific endoribonuclease in vitro. Cleaves exclusively between cytosine and adenine and cleaves MYC mRNA preferentially at the 3'-UTR. ATP- and magnesium-dependent helicase. 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. Unwinds DNA/DNA, RNA/DNA, and RNA/RNA substrates with comparable efficiency. Acts unidirectionally by moving in the 5' to 3' direction along the bound single-stranded DNA.
<b>Sequence and Domain Family</b>	The NTF2 domain mediates multimerization.
<b>Cellular Localization</b>	Cytoplasm. Cytoplasm, cytosol. Cytoplasmic granule. Cell membrane. Nucleus. Cytoplasmic in proliferating cells, can be recruited to the plasma membrane in exponentially growing cells . Cytosolic and partially nuclear in resting cells. Recruited to stress granules (SGs) upon either arsenite or high temperature treatment. Recruitment to SGs is influenced by HRAS.
<b>Post-translational Modifications</b>	Phosphorylated exclusively on serine residues. Hyperphosphorylated in quiescent fibroblasts. Hypophosphorylation leads to a decrease in endoribonuclease activity . RASA1-dependent phosphorylation of Ser-149 induces a conformational change that prevents self-association. Dephosphorylation after HRAS activation is required for stress granule assembly. Ser-149 phosphorylation induces partial nuclear localization. Arg-435 is dimethylated, probably to asymmetric dimethylarginine.