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# G3BP-1 (Phospho Ser149) Rabbit pAb

preferentially at the 3'-UTR. ATP- and magnesium-dependent helicase. Unwinds			
Reactivity	Catalog No	YP-Ab-17649	
Applications IHC,WB  Gene Name G3BP1 G3BP  Protein Name Ras GTPase-activating protein-binding protein 1 (G3BP-1) (EC 3.6.4.12) (EC 3.6.4.13) (ATP-dependent DNA helicase VIII) (hDH VIII) (GAP SH3 domain-binding protein 1)  Immunogen Synthesized peptide derived from human G3BP-1 (Phospho Ser149)  Specificity This antibody detects endogenous levels of G3BP-1 (Phospho Ser149) Rabbit pAb at Human, Mouse  Formulation Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.  Source Rabbit,polyclonal  Purification The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.  Dilution WB 1:500-2000 IHC 1:50-200  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms Ras GTPase-activating protein-binding protein 1 (G3BP-1) (EC 3.6.4.12) (EC 3.6.4.13) (ATP-dependent DNA helicase VIII) (hDH VIII) (GAP SH3 domain-binding protein 1)  Observed Band 52 60kD  Cell Pathway Cytoplasm, cytosol. Perikaryon. Cytoplasm, Stress granule. Nucleus. Cytoplasm icin proliferating cells (PubMed: 11604510). Cytosolic and partially nuclear in resting cells (PubMed: 11604510). Recruited to stress granules in response to a resenite treatment (PubMed: 12642610). HRAS signaling contributes to this process by regulating G3BP (PubMed: 12642610). HRAS signaling contributes to this process by regulating G3BP.  Tissue Specificity Ubiquitous.  Function cofactor:Magnesium. Required for helicase activity, domain:The NTF2 domain mediates multimerization. function: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 mRN.Ny preferentially partial DNA and RNA duplexes having a 17 bp a nanealed portion and preferentially partial DNA and RNA duplexes having a 17 bp a nanealed portion and partially partial DNA and RNA duplexes having a 17 bp a nanealed portion and partial proferentially partial DNA and RNA duplexes having a 17 bp a nanealed portion and p	Isotype	IgG	
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### UpingBio technology Co.,Ltd

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unidirection DNA.,PTM dimethylar	RNA/DNA, and RNA/RNA substrates nally by moving in the 5' to 3' direction :Arg-435 is dimethylated, probably to ginine.,PTM:Phosphorylated exclusives phorylated in quiescent fibroblasts.	along the bound sing asymmetric ely on serine residues	gle-stranded s.
G3RP stree	ss granule assembly factor 1(G3RP1)	Homo saniens	This gene

### Background

G3BP stress granule assembly factor 1(G3BP1) Homo sapiens 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, Jul 2008],

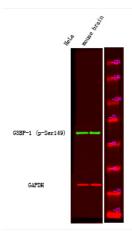
## matters needing attention

Avoid repeated freezing and thawing!

#### **Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### **Products Images**



Western Blot analysis of HeLa mouse brain tissue using primary antibody at 1:1000 dilution 4°C, overnight. Secondary antibody(catalog#:RS23920) was diluted at 1:10000 25°C, 1.5hours