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G3BP2 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50602

Specification

G3BP2 Antibody - Product Information

Application	**WB**
Primary Accession	Q9UN86
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**54,51 KDa**
Antigen Region	**450-481**

G3BP2 Antibody - Additional Information

Gene ID 9908

Other Names
Ras GTPase-activating protein-binding protein 2, G3BP-2, GAP SH3 domain-binding protein 2, G3BP2, KIAA0660

Dilution
WB~~ 1:500

Format
Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions
-20℃

G3BP2 Antibody - Protein Information

Name G3BP2 {ECO:0000303|PubMed:23279204, ECO:0000312|HGNC:HGNC:30291}

Function
Scaffold protein that plays an essential role in cytoplasmic stress granule formation which acts as a platform for antiviral signaling (PubMed:23279204, PubMed:32302570, PubMed:32302571, PubMed:32302572). Plays an essential role in stress granule formation (PubMed:27022092, PubMed:32302570, PubMed:32302571, PubMed:32302572, PubMed:35977029). Stress

granules are membraneless compartments that store mRNAs and proteins, such as stalled translation pre-initiation complexes, in response to stress (PubMed:32302570, PubMed:32302571, PubMed:32302572). 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 (By similarity).

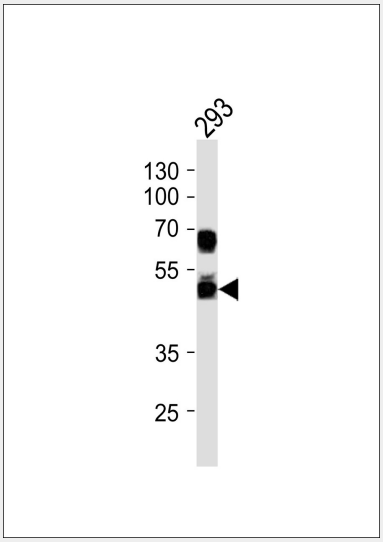
Cellular Location
Cytoplasm. Cytoplasm, Stress granule

G3BP2 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 Cytomety
- Cell Culture

G3BP2 Antibody - Images



Western blot analysis of lysates from Hela,293 cell line (from left to right),using G3BP2 Antibody(AP50602). AP50602 was diluted at 1:500 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.

G3BP2 Antibody - Background

Probable scaffold protein that may be involved in mRNA transport (Potential).

G3BP2 Antibody - References

Kennedy D.,et al.Submitted (APR-1999) to the EMBL/GenBank/DDBJ databases.
Ishikawa K.,et al.DNA Res. 5:169-176(1998).
Guitard E.,et al.Submitted (FEB-1998) to the EMBL/GenBank/DDBJ databases.
Kennedy D.,et al.Submitted (MAR-1998) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).