

## Rabbit hnRNP A1 Polyclonal Antibody | anti-HNRNPA1 antibody

hnRNP A1 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA321925 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

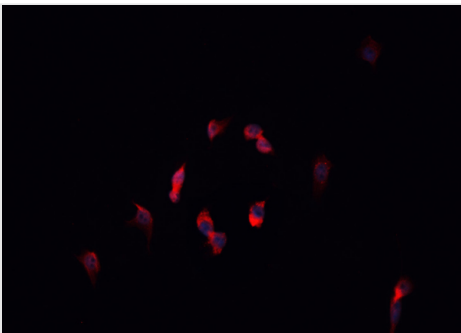
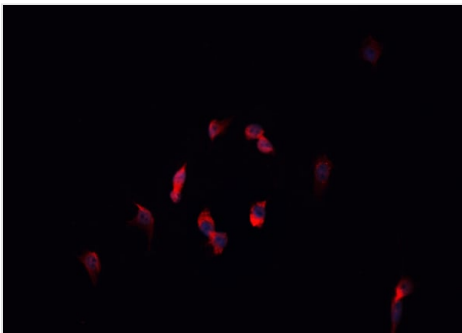
### PRODUCT SYNONYMS

hnRNP A1; Polyclonal Antibody; hnRNP A1 Antibody; HNRNPA 1; Helix destabilizing protein; Helix-destabilizing protein; Heterogeneous nuclear ribonucleoprotein A1; Heterogeneous nuclear ribonucleoprotein A1B protein; Heterogeneous nuclear ribonucleoprotein B2 protein; Heterogeneous nuclear ribonucleoprotein core protein A1; hnRNP core protein A1; HNRNPA1; HNRPA1; MGC102835; Nuclear ribonucleoprotein particle A1 protein; ROA1\_HUMAN; Single strand DNA binding protein UP1; Single strand RNA binding protein; Single-strand RNA-binding protein; anti-HNRNPA1 antibody

### PRODUCT SPECIFICATIONS

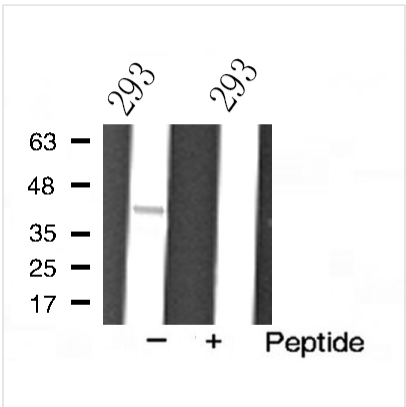
|                                                   |                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Rabbit                                                                                                                                                                                                                                                                                                                               |
| Reactivity                                        | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                    |
| Clonality                                         | Polyclonal                                                                                                                                                                                                                                                                                                                           |
| Isotype                                           | IgG                                                                                                                                                                                                                                                                                                                                  |
| Specificity                                       | hnRNP A1 antibody detects endogenous levels of total hnRNP A1                                                                                                                                                                                                                                                                        |
| Purity/Purification                               | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                                                                                                                                        |
| Form/Format                                       | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                        |
| Concentration                                     | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                               |
| Sequence Length                                   | 320                                                                                                                                                                                                                                                                                                                                  |
| Applicable Applications for anti-HNRNPA1 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                             |
| Immunogen                                         | A synthesized peptide derived from human hnRNP A1                                                                                                                                                                                                                                                                                    |
| Subcellular Location                              | Nucleus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Shuttles continuously between the nucleus and the cytoplasm along with mRNA. Component of ribonucleosomes. In the course of viral infection, colocalizes with HCV NS5B at speckles in the cytoplasm in a HCV-replication dependent manner. |
| Predicted Cross Reactivity                        | <b>Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus</b>                                                                                                                                                                                                                                                                      |
| Similarity                                        | Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)                                                                                                                                                                                                                     |
| Conjugation                                       | Unconjugated                                                                                                                                                                                                                                                                                                                         |
| Preparation and Storage                           | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                    |

IMAGES

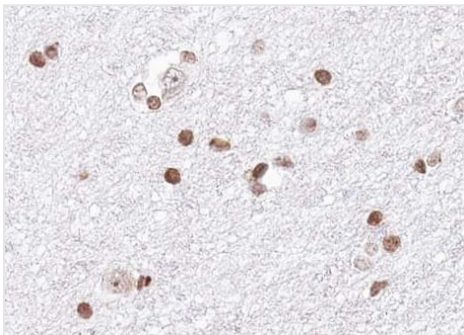


**IF (Immunofluorescence)**  
AAA321925 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

**IF (Immunofluorescence)**  
AAA321925 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



**WB (Western Blot)**  
Western blot analysis of hnRNP A1 expression in 293 cell extract



**IHC (Immunohistochemistry)**  
AAA321925 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-HNRNPA1 antibody

Function: Involved in the packaging of pre-mRNA into hnRNP particles, transport of poly(A) mRNA from the nucleus to the cytoplasm and may modulate splice site selection (PubMed:17371836). May bind to specific miRNA hairpins (PubMed:28431233).

Subunit Structure: Identified in the spliceosome C complex (PubMed:11991638). Identified in a IGF2BP1-dependent mRNP granule complex containing untranslated mRNAs (PubMed:17289661). Interacts with SEPT6 (PubMed:17229681). Interacts with C9orf72 (PubMed:24549040). Interacts with KHDRBS1 (PubMed:17371836). Interacts with UBQLN2 (PubMed:25616961).

Post-translational Modifications: Arg-194, Arg-206 and Arg-225 are dimethylated, probably to asymmetric dimethylarginine. Sumoylated.

NCBI AND UNIPROT INFORMATION

|                           |                                       |
|---------------------------|---------------------------------------|
| NCBI GI #                 | 4504445                               |
| NCBI GeneID               | 3178                                  |
| NCBI Accession #          | NP_002127.1                           |
| NCBI GenBank Nucleotide # | NM_002136.3                           |
| UniProt Accession #       | P09651; Q3MIB7; Q6PJZ7; A8K4Z8        |
| Molecular Weight          | Observed: 39 kDa<br>Predicted: 39 kDa |

|                                  |                                                                   |
|----------------------------------|-------------------------------------------------------------------|
| NCBI Official Full Name          | heterogeneous nuclear ribonucleoprotein A1 isoform a              |
| NCBI Official Synonym Full Names | heterogeneous nuclear ribonucleoprotein A1                        |
| NCBI Official Symbol             | HNRNPA1                                                           |
| NCBI Official Synonym Symbols    | UP 1; ALS19; ALS20; HNRPA1; IBMPFD3; HNRPA1L3; hnRNP A1; hnRNP-A1 |
| NCBI Protein Information         | heterogeneous nuclear ribonucleoprotein A1                        |
| UniProt Protein Name             | Heterogeneous nuclear ribonucleoprotein A1                        |
| UniProt Gene Name                | <b>HNRNPA1</b>                                                    |
| UniProt Synonym Gene Names       | HNRPA1; hnRNP A1                                                  |

**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/polyclonal/hnrnp-a1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321925>