

Rabbit anti-Human, Mouse hnRNP A2/B1 Polyclonal Antibody | anti-HNRNPA2B1 antibody

hnRNP A2/B1 Antibody

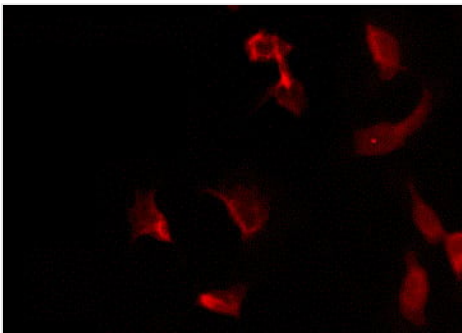
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323831	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

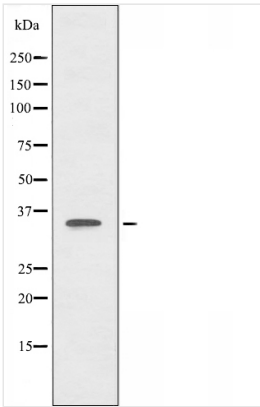
hnRNP A2/B1; Polyclonal Antibody; hnRNP A2/B1 Antibody; Heterogeneous nuclear ribonucleoprotein A2; Heterogeneous nuclear ribonucleoprotein A2/B1; Heterogeneous nuclear ribonucleoprotein B1; Heterogeneous nuclear ribonucleoproteins A2/B1; hnRNP A2/hnRNP B1; hnRNP A2; hnRNP B1; hnRNP-A2; hnRNP-B1; hnRNPA2; Hnrnpa2b1; hnRNPB1; HNRPA2; HNRPA2B1; HNRPB1; Nuclear ribonucleoprotein particle A2 protein; RNP A2; RNP B1; RNP-A2; RNP-B1; RNPA2; RNPB1; ROA2_HUMAN; SNRPB1; anti-HNRNPA2B1 antibody

PRODUCT SPECIFICATIONS

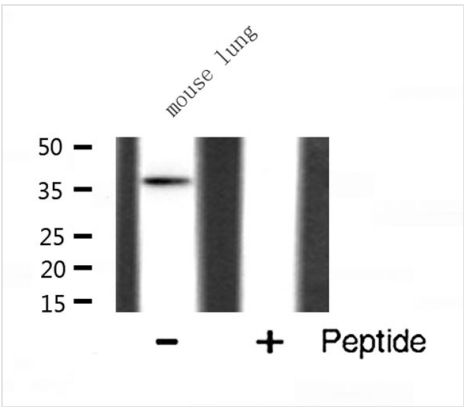
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	hnRNP A2/B1 antibody detects endogenous levels of total hnRNP A2/B1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	341
Applicable Applications for anti-HNRNPA2B1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus > Nucleoplasm. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Component of ribonucleosomes. Predominantly nucleoplasmic, however isoform A2 is also found in the cytoplasm of cells in some tissues. Not found in the nucleolus.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)
AAA323831 staining HepG2 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.



WB (Western Blot)
Western blot analysis of extracts from HepG2 cells, using hnRNP A2/B1 antibody.



WB (Western Blot)
Western blot analysis of hnRNP A2/B1 expression in Mouse lung lysate

ADDITIONAL INFORMATION

Related Product Information for anti-HNRNPA2B1 antibody	Function: Heterogeneous nuclear ribonucleoprotein (hnRNP) that associates with nascent pre-mRNAs, packaging them into hnRNP particles. The hnRNP particle arrangement on nascent hnRNA is non-random and sequence-dependent and serves to condense and stabilize the transcripts and minimize tangling and knotting. Packaging plays a role in various processes such as transcription, pre-mRNA processing, RNA nuclear export, subcellular location, mRNA translation and stability of mature mRNAs (PubMed:19099192). Forms hnRNP particles with at least 20 other different hnRNP and heterogeneous nuclear RNA in the nucleus. Involved in transport of specific mRNAs to the cytoplasm in oligodendrocytes and neurons: acts by specifically recognizing and binding the A2RE (21 nucleotide hnRNP A2 response element) or the A2RE11 (derivative 11 nucleotide oligonucleotide) sequence motifs present on some mRNAs, and promotes their transport to the cytoplasm (PubMed:10567417). Specifically binds single-stranded telomeric DNA sequences, protecting telomeric DNA repeat against endonuclease digestion (By similarity). Also binds other RNA molecules, such as primary miRNA (pri-miRNAs): acts as a nuclear 'reader' of the N6-methyladenosine (m6A) mark by specifically recognizing and binding a subset of nuclear m6A-containing pri-miRNAs. Binding to m6A-containing pri-miRNAs promotes pri-miRNA processing by enhancing binding of DGCR8 to pri-miRNA transcripts (PubMed:26321680). Involved in miRNA sorting into exosomes following sumoylation, possibly by binding (m6A)-containing pre-miRNAs (PubMed:24356509). Acts as a regulator of efficiency of mRNA splicing, possibly by binding to m6A-containing pre-mRNAs (PubMed:26321680). 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 IGF2BP1 (PubMed:17289661). Interacts with C9orf72 (PubMed:24549040). Interacts with DGCR8 (PubMed:26321680). Interacts with TARDBP (PubMed:19429692). Interacts with CKAP5 (PubMed:15703215). Post-translational Modifications: Sumoylated in exosomes, promoting miRNAs-binding. Asymmetric dimethylation at Arg-266 constitutes the major methylation site (By similarity). According to a report, methylation affects subcellular location and promotes nuclear localization (PubMed:10772824). According to another report, methylation at Arg-266 does not influence nucleocytoplasmic shuttling (By similarity). Similarity: The low complexity (LC) region is intrinsically disordered. When incubated at high concentration, it is able to polymerize into labile, amyloid-like fibers and form cross-beta polymerization structures, probably driving the formation of hydrogels. In contrast to irreversible, pathogenic amyloids, the fibers polymerized from LC regions disassemble upon dilution. A number of evidences suggest that formation of cross-beta structures by LC regions mediate the formation of RNA granules, liquid-like droplets, and hydrogels.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504447
NCBI GeneID	3181
NCBI Accession #	NP_002128.1
NCBI GenBank Nucleotide #	NM_002137.3
UniProt Accession #	P22626; P22627; Q9UC98; Q9UDJ2; A0A024RA27; A0A024RA61; A8K064
Molecular Weight	Observed: 36 kD Predicted: 38 kDa
NCBI Official Full Name	heterogeneous nuclear ribonucleoproteins A2/B1 isoform A2
NCBI Official Synonym Full Names	heterogeneous nuclear ribonucleoprotein A2/B1
NCBI Official Symbol	HNRNPA2B1
NCBI Official Synonym Symbols	RNPA2; HNRPA2; HNRPB1; SNRPB1; HNRNPA2; HNRNPB1; IBMPFD2; HNRPA2B1
NCBI Protein Information	heterogeneous nuclear ribonucleoproteins A2/B1
UniProt Protein Name	Heterogeneous nuclear ribonucleoproteins A2/B1
UniProt Gene Name	HNRNPA2B1
UniProt Synonym Gene Names	HNRPA2B1; hnRNP A2/B1

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.

