

Recombinant Mouse Hnrnpa2b1 Protein, Myc/DDK-tagged

Cat. No. Hnrnpa2b1-3419M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length heterogeneous nuclear ribonucleoprotein A2/B1 (Hnrnpa2b1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	<p>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. 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. Specifically binds single-stranded telomeric DNA sequences, protecting telomeric DNA repeat against endonuclease digestion. 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</p>

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pri-miRNAs promotes pri-miRNA processing by enhancing binding of DGCR8 to pri-miRNA transcripts. Involved in miRNA sorting into exosomes following sumoylation, possibly by binding (m6A)-containing pre-miRNAs. Acts as a regulator of efficiency of mRNA splicing, possibly by binding to m6A-containing pre-mRNAs. Plays also a role in the activation of the innate immune response. Mechanistically, senses the presence of viral DNA in the nucleus, homodimerizes and is demethylated by JMJD6. In turn, translocates to the cytoplasm where it activates the TBK1-IRF3 pathway, leading to interferon alpha/beta production.

Molecular Mass	32.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Hnrnpa2b1 heterogeneous nuclear ribonucleoprotein A2/B1 [Mus musculus (house mouse)]
Official Symbol	Hnrnpa2b1
Synonyms	HNRNPA2B1; heterogeneous nuclear ribonucleoprotein A2/B1; heterogeneous nuclear ribonucleoproteins A2/B1; hnRNP A2/B1; hnRNP A2 / hnRNP B1;

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heterogenous nuclear ribonucleoprotein A2/B1; Hnrpa2; hnrnp-A; Hnrpa2b1;
9130414A06Rik

Gene ID [53379](#)

mRNA Refseq [NM_182650](#)

Protein Refseq [NP_872591](#)

UniProt ID [O88569](#)

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