

## Recombinant Mouse Rnps1 Protein, Myc/DDK-tagged

**Cat. No.** Rnps1-5564M    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Purified recombinant protein of mouse full-length ribonucleic acid binding protein S1 (Rnps1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

**Species**                      Mouse

**Source**                        HEK293

**Description**              Part of pre- and post-splicing multiprotein mRNP complexes. Auxiliary component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Component of the ASAP and PSAP complexes which bind RNA in a sequence-independent manner and are proposed to be recruited to the EJC prior to or during the splicing process and to regulate specific excision of introns in specific transcription subsets. The ASAP complex can inhibit RNA processing during in vitro splicing reactions. The ASAP complex promotes apoptosis and is disassembled after induction of apoptosis. Enhances the formation of the ATP-dependent A complex of the spliceosome. Involved in both constitutive splicing and, in association with SRP54 and TRA2B/SFRS10, in distinctive modulation of alternative splicing in a substrate-dependent manner. Involved in the splicing modulation of BCL2L1/Bcl-X (and probably other apoptotic genes); specifically inhibits formation of proapoptotic isoforms such as Bcl-X(S); the activity is different from the established EJC assembly and function. Participates in mRNA 3'-end cleavage. Involved in UPF2-dependent

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

nonsense-mediated decay (NMD) of mRNAs containing premature stop codons. Also mediates increase of mRNA abundance and translational efficiency. Binds spliced mRNA 20-25 nt upstream of exon-exon junctions.

|                       |   |
|-----------------------|---|
| <b>Molecular Mass</b> | 34.2 kDa  |
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining   |
| <b>Stability</b>      | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>        | Store at -80 centigrade after receiving vials.  |
| <b>Concentration</b>  | >50 µg/mL as determined by microplate BCA method  |
| <b>Storage Buffer</b> | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.   |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | <a href="#">Rnps1 RNA binding protein with serine rich domain 1 [ Mus musculus (house mouse) ]</a> |
| <b>Official Symbol</b> | <a href="#">Rnps1</a>  |
| <b>Synonyms</b>        | RNPS1; ribonucleic acid binding protein S1; RNA-binding protein with serine-rich domain 1          |
| <b>Gene ID</b>         | <a href="#">19826</a>  |
| <b>mRNA Refseq</b>     | <a href="#">NM_009070</a>  |

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**Protein Refseq** NP\_033096

**UniProt ID** Q99M28

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