

## Recombinant Mouse Khdrbs1 Protein, Myc/DDK-tagged

**Cat. No.** Khdrbs1-3689M    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Purified recombinant protein of mouse full-length KH domain containing, RNA binding, signal transduction associated 1 (Khdrbs1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

**Species**      Mouse

**Source**      HEK293

**Description**      Recruited and tyrosine phosphorylated by several receptor systems, for example the T-cell, leptin and insulin receptors. Once phosphorylated, functions as an adapter protein in signal transduction cascades by binding to SH2 and SH3 domain-containing proteins. Role in G2-M progression in the cell cycle. Represses CBP-dependent transcriptional activation apparently by competing with other nuclear factors for binding to CBP. Also acts as a putative regulator of mRNA stability and/or translation rates and mediates mRNA nuclear export. Positively regulates the association of constitutive transport element (CTE)-containing mRNA with large polyribosomes and translation initiation. May not be involved in the nucleocytoplasmic export of unspliced (CTE)-containing RNA species. RNA-binding protein that plays a role in the regulation of alternative splicing and influences mRNA splice site selection and exon inclusion. Binds to RNA containing 5'-[AU]UAA-3' as a bipartite motif spaced by more than 15 nucleotides. Binds poly(A). In cooperation with HNRNPA1 modulates alternative splicing of BCL2L1 by promoting splicing toward isoform Bcl-X(S), and of SMN1. Can regulate CD44 alternative splicing in a Ras pathway-dependent manner. Can regulate alternative splicing of NRXN1 and NRXN3 in the

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laminin G-like domain 6 containing the evolutionary conserved neurexin alternative spliced segment 4 (AS4) involved in neurexin selective targeting to postsynaptic partners. In a neuronal activity-dependent manner cooperates synergistically with KHDRBS2/SLIM-1 in regulation of NRXN1 exon skipping at AS4. The cooperation with KHDRBS2/SLIM-1 is antagonistic for regulation of NXRN3 alternative splicing at AS4.

<b>Molecular Mass</b>	48.8 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="#">Khdrbs1 KH domain containing, RNA binding, signal transduction associated 1 [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Khdrbs1</a>
<b>Synonyms</b>	KHDRBS1; KH domain containing, RNA binding, signal transduction associated 1; KH domain-containing, RNA-binding, signal transduction-associated protein 1; src associated in mitosis, 68 kDa; src-associated in mitosis 68 kDa protein; GAP-associated tyrosine phosphoprotein p62; p21 Ras GTPase-activating protein-

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associated p62; p62; p68; Sam68

**Gene ID**

20218

**mRNA Refseq**


NM\_011317

**Protein Refseq**

NP\_035447

**UniProt ID**

Q60749

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