

KHDRBS3 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP19054a**Specification**

KHDRBS3 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O75525](#)**KHDRBS3 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 10656**Other Names**

KH domain-containing, RNA-binding, signal transduction-associated protein 3, RNA-binding protein T-Star, Sam68-like mammalian protein 2, SLM-2, Sam68-like phosphotyrosine protein, KHDRBS3, SALP, SLM2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

KHDRBS3 Antibody (N-term) Blocking Peptide - Protein Information**Name** KHDRBS3**Synonyms** SALP, SLM2**Function**

RNA-binding protein that plays a role in the regulation of alternative splicing and influences mRNA splice site selection and exon inclusion. Binds preferentially to the 5'-[AU]UAAA-3' motif in vitro. Binds optimally to RNA containing 5'-[AU]UAA-3' as a bipartite motif spaced by more than 15 nucleotides. Binds poly(A). RNA-binding abilities are down-regulated by tyrosine kinase PTK6 (PubMed: [10564820](http://www.uniprot.org/citations/10564820)), PubMed: [19561594](http://www.uniprot.org/citations/19561594)), PubMed: [26758068](http://www.uniprot.org/citations/26758068)). Involved in splice site selection of vascular endothelial growth factor (PubMed: [15901763](http://www.uniprot.org/citations/15901763)). In vitro regulates CD44 alternative splicing by direct binding to purine-rich exonic enhancer (By similarity). Can regulate alternative splicing of neurexins NRXN1-3 in the laminin G-like domain 6 containing the evolutionary conserved neurexin alternative spliced segment 4 (AS4) involved in neurexin selective targeting to postsynaptic partners such as neuroligins and LRRTM family members (PubMed: [26758068](http://www.uniprot.org/citations/26758068)).

Targeted, cell-type specific splicing regulation of NRXN1 at AS4 is involved in neuronal glutamatergic synapse function and plasticity (By similarity). May regulate expression of KHDRBS2/SLIM-1 in defined brain neuron populations by modifying its alternative splicing (By similarity). Can bind FABP9 mRNA (By similarity). May play a role as a negative regulator of cell growth. Inhibits cell proliferation.

Cellular Location

Nucleus. Note=Localized in a compartment adjacent to the nucleolus, but distinct from the peri-nucleolar one

Tissue Location

Ubiquitous with higher expression in testis, skeletal muscle and brain. Expressed in the kidney only in podocytes, the glomerular epithelial cells of the kidney. Strongly expressed after meiosis.

KHDRBS3 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

KHDRBS3 Antibody (N-term) Blocking Peptide - Images**KHDRBS3 Antibody (N-term) Blocking Peptide - Background**

RNA-binding protein that plays a role in the regulation of alternative splicing and influences mRNA splice site selection and exon inclusion. May play a role as a negative regulator of cell growth. Inhibits cell proliferation. Involved in splice site selection of vascular endothelial growth factor. Induces an increased concentration-dependent incorporation of exon in CD44 pre-mRNA by direct binding to purine-rich exonic enhancer. RNA-binding abilities are down-regulated by tyrosine kinase PTK6. Involved in post-transcriptional regulation of HIV-1 gene expression.

KHDRBS3 Antibody (N-term) Blocking Peptide - References

Xin, X., et al. Genome Res. 19(7):1262-1269(2009) Lu, Y., et al. PLoS ONE 4 (7), E6159 (2009)
:Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007) Schymick, J.C., et al. Lancet Neurol 6(4):322-328(2007) Olsen, J.V., et al. Cell 127(3):635-648(2006)