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Mouse Khdrbs1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP19343b

Specification

Mouse Khdrbs1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q60749

Mouse Khdrbs1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 20218

Other Names
KH domain-containing, RNA-binding, signal transduction-associated protein 1, GAP-associated tyrosine phosphoprotein p62, Src-associated in mitosis 68 kDa protein, Sam68, p21 Ras GTPase-activating protein-associated p62, p68, Khdrbs1 {ECO:0000312|MGI:MGI:893579}

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.

Mouse Khdrbs1 Antibody (C-term) Blocking Peptide - Protein Information

Name Khdrbs1 {ECO:0000312|MGI:MGI:893579}

Function
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 (By similarity). Can regulate CD44 alternative splicing in a Ras pathway-dependent manner. Can regulate alternative splicing of NRXN1 and NRXN3 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. 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 (PubMed:12478298, PubMed:22196734, PubMed:24469635).

Cellular Location
Nucleus. Cytoplasm {ECO:0000250|UniProtKB:Q07666}. Membrane Note=Predominantly located in the nucleus but also located partially in the cytoplasm. {ECO:0000250|UniProtKB:Q07666}

Tissue Location
In adult cerebellum expressed in most neuronal cell populations, specifically in cerebellar granule cells of the internal granular layer, ROR(alpha)-positive Purkinje cells, internal granular layer and molecular layer interneurons (at protein level)

Mouse Khdrbs1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

Mouse Khdrbs1 Antibody (C-term) Blocking Peptide - Images

Mouse Khdrbs1 Antibody (C-term) Blocking Peptide - Background

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Mouse Khdrbs1 Antibody (C-term) Blocking Peptide - References

Sette, C., et al. J. Androl. 31(1):66-74(2010)Maroni, P., et al. Mol. Cell. Endocrinol. 309 (1-2), 26-31 (2009) :Paronetto, M.P., et al. J. Cell Biol. 185(2):235-249(2009)Huot, M.E., et al. Mol. Cell. Biol. 29(7):1933-1943(2009)Rajan, P., et al. BMC Cell Biol. 10, 82 (2009) :