10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KHDRBS2 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1934a

Product Information

Application	WB, IHC, FC, E
Primary Accession	Q5VWX1
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Clone Names	7G8C10
Isotype	IgG1
Calculated MW	38927
Description	RNA-binding protein that plays a role in the regulation of alternative splicing and influences mRNA splice site selection and exon inclusion. Its phosphorylation by FYN inhibits its ability to regulate splice site selection. Induces an increased concentration-dependent incorporation of exon in CD44 pre-mRNA by direct binding to purine-rich exonic enhancer. May function as an adapter protein for Src kinases during mitosis. Binds both poly(A) and poly(U) homopolymers. Phosphorylation by PTK6 inhibits its RNA-binding ability (By similarity)
Immunogen	Purified recombinant fragment of human KHDRBS2 (AA: 160-349) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide.

Additional Information

Gene ID	202559
Other Names	KH domain-containing, RNA-binding, signal transduction-associated protein 2, Sam68-like mammalian protein 1, SLM-1, hSLM-1, KHDRBS2, SLM1
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	KHDRBS2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KHDRBS2

Synonyms	SLM1
Function	RNA-binding protein that plays a role in the regulation of alternative splicing and influences mRNA splice site selection and exon inclusion. Binds both poly(A) and poly(U) homopolymers. Phosphorylation by PTK6 inhibits its RNA-binding ability (By similarity). Induces an increased concentration-dependent incorporation of exon in CD44 pre- mRNA by direct binding to purine-rich exonic enhancer. Can regulate alternative splicing of NRXN1 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. Regulates cell-type specific alternative splicing of NRXN1 at AS4 and acts synergystically with SAM68 in exon skipping. In contrast acts antagonistically with SAM68 in NRXN3 exon skipping at AS4. Its phosphorylation by FYN inhibits its ability to regulate splice site selection. May function as an adapter protein for Src kinases during mitosis.
Cellular Location	Nucleus {ECO:0000250|UniProtKB:Q9WU01}.
Tissue Location	Highly expressed in brain, lung, kidney and small intestine. Weakly expressed in placenta, liver, spleen, thymus, ovary and colon.

References

1. Mol Biol Cell. 2003 Jan;14(1):274-87. 2.

Images

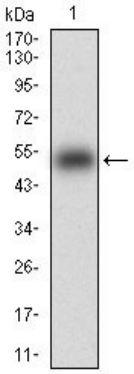


Figure 1: Western blot analysis using KHDRBS2 mAb against human KHDRBS2 (AA: 160-349) recombinant protein. (Expected MW is 46.3 kDa)

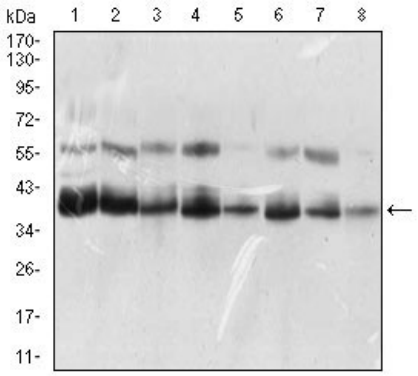
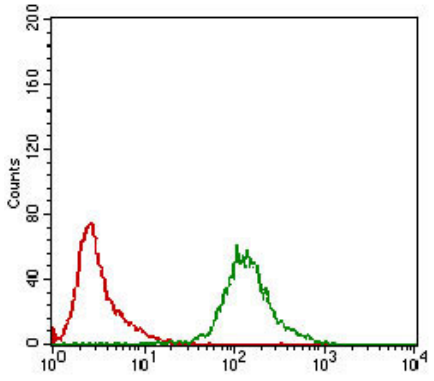


Figure 2: Western blot analysis using KHDRBS2 mouse mAb against K562 (1), HEK293 (2), NTERA-2 (3), Hela (4), HepG2 (5), Jurkat (6), A431 (7), NIH/3T3 (8) cell lysate.

Figure 3: Flow cytometric analysis of K562 cells using KHDRBS2 mouse mAb (green) and negative control (red).



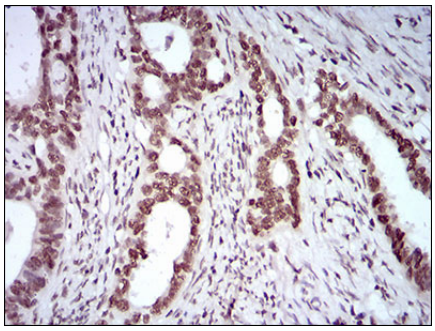


Figure 4: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using KHDRBS2 mouse mAb with DAB staining.

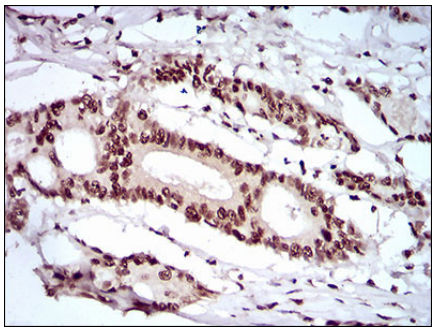


Figure 5: Immunohistochemical analysis of paraffin-embedded colon cancer tissues using KHDRBS2 mouse mAb with DAB staining.