RBM4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RBM4, Polyclonal Antibody
Full Product Name	RBM4 Antibody, HRP conjugated
Product Gene Name	anti-RBM4 antibody
Product Synonym Names	RNA-binding protein 4; Lark homolog; hLark; RNA-binding motif protein 4; RNA-binding motif protein 4a; RBM4; RBM4A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: RBM4 (MBS7051320) HRP Conjugated Antibody: RBM4 (MBS7051321)
Molecular Weight	19,788 Da
OMIM	U89505 mRNA
3D Structure	ModBase 3D Structure for Q9BWF3
Immunogen	Recombinant human RNA-binding protein 4 protein (121-205AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	HRP
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-98346
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RBM4 antibody	ELISA (EIA)
Related Product Information for anti-RBM4 antibody	RNA-binding factor involved in multiple aspects of cellular processes like alternative splicing of pre-mRNA and translation regulation. Modulates alternative 5'-splice site and exon selection. Acts as a muscle cell differentiation-promoting factor. Activates exon skipping of the PTB pre-mRNA during muscle cell differentiation. Antagonizes the activity of the splicing factor PTBP1 to modulate muscle cell-specific exon selection of alpha tropomyosin. Binds to intronic pyrimidine-rich sequence of the TPM1 and MAPT pre-mRNAs. Required for the translational activation of PER1 mRNA in response to circadian clock. Binds directly to the 3'-UTR of the PER1 mRNA. Exerts a suppressive activity on Cap-dependent translation via binding to CU-rich responsive elements within the 3'UTR of mRNAs, a process increased under stress conditions or during myocytes differentiation. Recruits EIF4A1 to stimulate IRES-dependent translation initiation in respons to cellular stress. Associates to internal ribosome entry segment (IRES) in target mRNA species under stress conditions. Plays a role for miRNA-guided RNA cleavage and translation suppression by promoting association of AGO2-containing miRNPs with their cognate target mRNAs. Associates with miRNAs during muscle cell differentiation. Binds preferentially to 5'-CGCGCG[GCA]-3' motif in vitro.

Other Notes	Small volumes of anti-RBM4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RBM4 purchase	MBS7051321 is an antibody targeting RBM4. Also known as RBM4 Antibody, HRP conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RBM4. It may not necessarily be applicable to this product.

NCBI GI #	311771540
NCBI GeneID	5936
NCBI Accession #	NP_001185772.1
UniProt Primary Accession #	Q9BWF3
UniProt Secondary Accession #	O02916; Q4VC48; Q6P1P2; Q8WU85; B3KUN0; B4E1U0; E7EQS3
UniProt Related Accession #	Q9BWF3
GenBank Nucleotide #	NM_001198843.1
NCBI Official Full Name	RNA-binding protein 4 isoform 2
NCBI Official Synonym Full Names	RNA binding motif protein 4
NCBI Official Symbol	RBM4
NCBI Official Synonym Symbols	LARK; RBM4A; ZCRB3A; ZCCHC21
UniProt Protein Name	RNA-binding protein 4
UniProt Synonym Protein Names	Lark homolog; hLark; RNA-binding motif protein 4; RNA-binding motif protein 4a
Protein Family	RNA-binding protein
UniProt Gene Name	RBM4
UniProt Synonym Gene Names	RBM4A; hLark
UniProt Entry Name	RBM4_HUMAN
NCBI Protein Information	RNA-binding protein 4

UniProt Comments for RBM4	RBM4: RNA-binding factor involved in multiple aspects of cellular processes like alternative splicing of pre-mRNA and translation regulation. Modulates alternative 5'-splice site and exon selection. Acts as a muscle cell differentiation-promoting factor. Activates exon skipping of the PTB pre-mRNA during muscle cell differentiation. Antagonizes the activity of the splicing factor PTBP1 to modulate muscle cell-specific exon selection of alpha tropomyosin. Binds to intronic pyrimidine-rich sequence of the TPM1 and MAPT pre-mRNAs. Required for the translational activation of PER1 mRNA in response to circadian clock. Binds directly to the 3'-UTR of the PER1 mRNA. Exerts a suppressive activity on Cap-dependent translation via binding to CU-rich responsive elements within the 3'UTR of mRNAs, a process increased under stress conditions or during myocytes differentiation. Recruits EIF4A1 to stimulate IRES-dependent translation initiation in respons to cellular stress. Associates to internal ribosome entry segment (IRES) in target mRNA species under stress conditions. Plays a role for miRNA-guided RNA cleavage and translation suppression by promoting association of EIF2C2- containing miRNPs with their cognate target mRNAs. Associates with miRNAs during muscle cell differentiation. Binds preferentially to 5'-CGCGCG[GCA]-3' motif in vitro. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Nuclear receptor co-regulator; Nucleolus; RNA splicing; RNA-binding Chromosomal Location of Human Ortholog: 11q13 Cellular Component: cytoplasm; nuclear speck; nucleolus; nucleoplasm; nucleus; stress granule Molecular Function: miRNA binding; mRNA 3'-UTR binding; mRNA binding; protein binding; RNA binding Biological Process: entrainment of circadian clock by photoperiod; miRNA-mediated gene silencing, negative regulation of translation; negative regulation of translation; negative regulation of translation in response to stress; negative regulation of translational initiation; positive regulation of muscle cell differentiation; regulation of alternative nuclear mRNA splicing, via spliceosome; regulation of nucleocytoplasmic transport; response to arsenic; RNA processing; stress-activated MAPK cascade
Research Articles on RBM4	**1.** alternative splicing patterns were altered by knockdown of RBM4 in several types of neoplasms
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