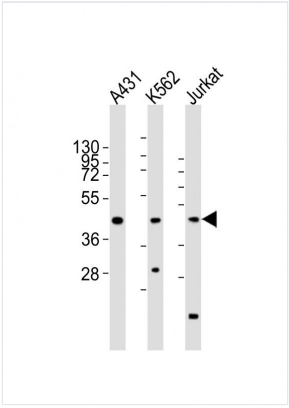
RBMX Antibody – Rabbit Polyclonal

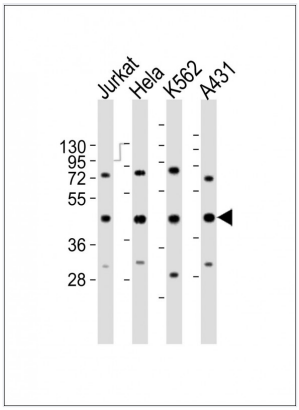
PRODUCT OVERVIEW

Product Name	RBMX, Polyclonal Antibody
Full Product Name	RBMX Antibody (Center)
Product Gene Name	anti-RBMX antibody
Product Synonym Names	RNA-binding motif protein; X chromosome; Glycoprotein p43; Heterogeneous nuclear ribonucleoprotein G; hnRNP G; RNA-binding motif protein; X chromosome; N-terminally processed; RBMX; HNRPG; RBMXP1
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This RBMX antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 222-252 amino acids from the Central region of human RBMX.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	RBMX peptide (MBS9230076) is used for blocking the activity of RBMX antibody (MBS9209730)
Molecular Weight	42332
OMIM	300199
3D Structure	ModBase 3D Structure for P38159
Crown Antibody	Yes
Antigen Source	HUMAN
Product Categories/Family for anti-RBMX antibody	Crown Antibodies; Cancer; Cardiovascular; Cell Biology; Metabolism; Neuroscience
Applications Tested/Suitable for anti-RBMX antibody	Western Blot (WB)
Application Notes for anti-RBMX antibody	WB~~1:2000

Related Product Information for anti-RBMX antibody	RNA-binding protein that plays several role in the regulation of pre- and post-transcriptional processes. Implicated in tissue-specific regulation of gene transcription and alternative splicing of several pre-mRNAs. Binds to and stimulates transcription from the tumor suppressor TXNIP gene promoter; may thus be involved in tumor suppression. When associated with SAFB, binds to and stimulates transcription from the SREBF1 promoter. Associates with nascent mRNAs transcribed by RNA polymerase II. Component of the supraspliceosome complex that regulates pre-mRNA alternative splice site selection. Can either activate or suppress exon inclusion; acts additively with TRA2B to promote exon 7 inclusion of the survival motor neuron SMN2. Represses the splicing of MAPT/Tau exon 10. Binds preferentially to single- stranded 5'-CC[A/C]-rich RNA sequence motifs localized in a single-stranded conformation; probably binds RNA as a homodimer. Binds non-specifically to pre-mRNAs. Plays also a role in the cytoplasmic TNFR1 trafficking pathways; promotes both the IL-1- beta-mediated inducible proteolytic cleavage of TNFR1 ectodomains and the release of TNFR1 exosome-like vesicles to the extracellular compartment.
Product References and Citations for anti-RBMX antibody	Soulard M.,et al.Nucleic Acids Res. 21:4210-4217(1993). Venables J.P.,et al.Submitted (JUN-1998) to the EMBL/GenBank/DDBJ databases. Lingenfelter P.A.,et al.Mamm. Genome 12:538-545(2001). Lin T.-Y.,et al.Submitted (NOV-2003) to the EMBL/GenBank/DDBJ databases. Ota T.,et al.Nat. Genet. 36:40-45(2004).
Other Notes	Small volumes of anti-RBMX 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 RBMX purchase	MBS9209730 is an antibody targeting RBMX. Also known as RBMX Antibody (Center). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-RBMX antibody
All lanes : Anti-RBMX Antibody (Center) at 1:2000 dilutionLane 1: A431 whole cell lysatesLane 2: K562 whole cell lysatesLane 3: Jurkat whole cell lysatesLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilutionPredicted band size : 42 kDaBlocking/Dilution buffer: 5% NFDM/TBST.



Western Blot (WB) of anti-RBMX antibody
All lanes : Anti-RBMX Antibody (Center) at 1:2000 dilutionLane 1: Jurkat whole cell lysatesLane 2: Hela whole cell lysatesLane 3: K562 whole cell lysatesLane 4: A431 whole cell lysatesLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilutionPredicted band size : 42 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL DETAILS

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

NCBI GI #	258645150
NCBI GeneID	27316
NCBI Accession #	NP_001158275.1
UniProt Primary Accession #	P38159
UniProt Secondary Accession #	Q5JQ67; Q8N8Y7; Q969R3; B4E3U4; D3DWH0; E9PG86
UniProt Related Accession #	P38159
GenBank Nucleotide #	NM_001164803.1
NCBI Official Full Name	RNA-binding motif protein, X chromosome isoform 2

NCBI Official Synonym Full Names	RNA binding motif protein, X-linked
NCBI Official Symbol	RBMX
NCBI Official Synonym Symbols	RNMX; HNRPG; HNRNPG; RBMXP1; RBMXRT; hnRNP-G
UniProt Protein Name	RNA-binding motif protein, X chromosome
UniProt Synonym Protein Names	Glycoprotein p43; Heterogeneous nuclear ribonucleoprotein G; hnRNP G
Protein Family	RNA-binding motif protein
UniProt Gene Name	RBMX
UniProt Synonym Gene Names	HNRPG; RBMXP1; hnRNP G
UniProt Entry Name	RBMX_HUMAN
NCBI Protein Information	RNA-binding motif protein, X chromosome
NCBI Summary for RBMX	This gene belongs to the RBMY gene family which includes candidate Y chromosome spermatogenesis genes. This gene, an active X chromosome homolog of the Y chromosome RBMY gene, is widely expressed whereas the RBMY gene evolved a male-specific function in spermatogenesis. Pseudogenes of this gene, found on chromosomes 1, 4, 9, 11, and 6, were likely derived by retrotransposition from the original gene. Alternatively spliced transcript variants encoding different isoforms have been identified. A snoRNA gene (SNORD61) is found in one of its introns. [provided by RefSeq, Sep 2009]
UniProt Comments for RBMX	RBMX: RNA-binding protein that plays several role in the regulation of pre- and post-transcriptional processes. Implicated in tissue-specific regulation of gene transcription and alternative splicing of several pre-mRNAs. Binds to and stimulates transcription from the tumor suppressor TXNIP gene promoter; may thus be involved in tumor suppression. When associated with SAFB, binds to and stimulates transcription from the SREBF1 promoter. Associates with nascent mRNAs transcribed by RNA polymerase II. Component of the supraspliceosome complex that regulates pre-mRNA alternative splice site selection. Can either activate or suppress exon inclusion; acts additively with TRA2B to promote exon 7 inclusion of the survival motor neuron SMN2. Represses the splicing of MAPT/Tau exon 10. Binds preferentially to single- stranded 5'-CC[A/C]-rich RNA sequence motifs localized in a single-stranded conformation; probably binds RNA as a homodimer. Binds non-specifically to pre-mRNAs. Plays also a role in the cytoplasmic TNFR1 trafficking pathways; promotes both the IL-1- beta-mediated inducible proteolytic cleavage of TNFR1 ectodomains and the release of TNFR1 exosome-like vesicles to the extracellular compartment. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Spliceosome; RNA splicing; RNA-binding; Tumor suppressor; RNA processing Chromosomal Location of Human Ortholog: Xq26.3 Cellular Component: nucleoplasm; extracellular space; membrane; ribonucleoprotein complex; nucleus Molecular Function: mRNA binding; protein binding; RNA binding; nucleotide binding; chromatin binding Biological Process: transcription from RNA polymerase II promoter; positive regulation of nuclear mRNA splicing, via spliceosome; osteoblast differentiation; nuclear mRNA splicing, via spliceosome; negative regulation of nuclear mRNA splicing, via spliceosome; RNA splicing; membrane protein ectodomain proteolysis; positive regulation of transcription from RNA polymerase II promoter; gene expression; protein homooligomerization; regulation of alternative nuclear mRNA splicing, via spliceosome
Research Articles on RBMX	**1.** RBMX is a cohesion regulator that maintains the proper cohesion of sister chromatids.
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