

RBMX Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21511c

Specification

RBMX Antibody (Center) - Product Information

Application	WB, IHC-P,E
Primary Accession	P38159
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	42332
Antigen Region	262-294

RBMX Antibody (Center) - Additional Information

Gene ID 27316

Other 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

Target/Specificity

This RBMX antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 262-294 amino acids from the Central region of human RBMX.

Dilution

WB~~1:1000-1:2000
IHC-P~~1:25

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.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

RBMX Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

RBMX Antibody (Center) - Protein Information

Name RBMX

Synonyms HNRPG, RBMXP1

Function 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. Also plays 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.

Cellular Location

Nucleus Note=Component of ribonucleosomes. Localizes in numerous small granules in the nucleus

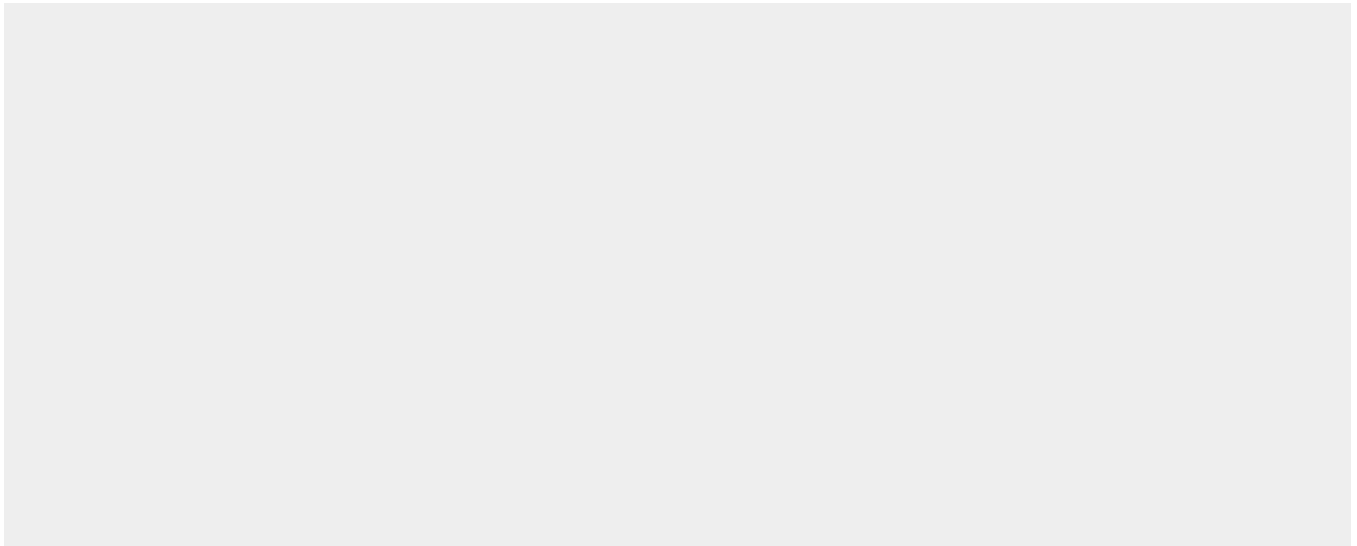
Tissue Location

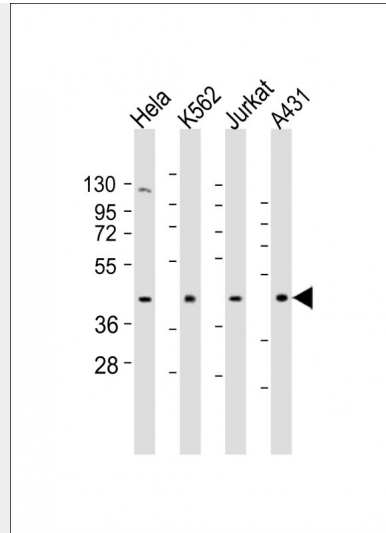
Expressed strongly in oral keratinocytes, but only weakly detected in oral squamous cell carcinomas (at protein level)

RBMX Antibody (Center) - Protocols

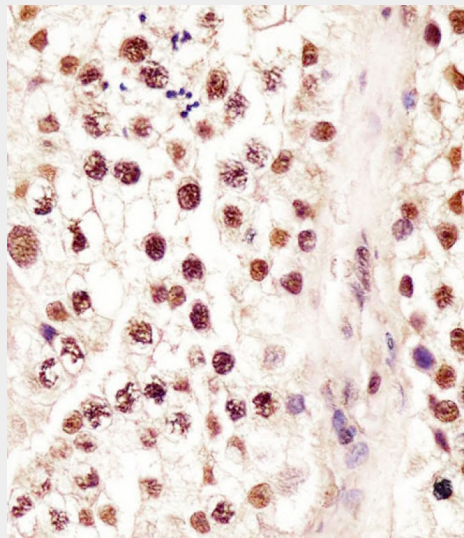
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RBMX Antibody (Center) - Images



All lanes : Anti-RBMX Antibody (Center) at 1:1000-1:2000 dilution Lane 1: HeLa whole cell lysates Lane 2: K562 whole cell lysates Lane 3: Jurkat whole cell lysates Lane 4: A431 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 42 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



AP21511c staining RBMX in human testis tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

RBMX Antibody (Center) - Background

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.

RBMX Antibody (Center) - References

- 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).