



Rabbit Anti-RBMX/hnRNP G antibody

SL6121R

Product Name:	RBMX/hnRNP G
Chinese Name:	glycoproteinP43抗体
Alias:	hnRNP G; HNRPG; Glycoprotein p43; HNRPG; RNA binding motif protein, X chromosome; Heterogeneous nuclear ribonucleoprotein G; RBMX; RBMXP1; RBMXRT; RBMX_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	42kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HNRPG:51-150/391
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Heterogeneous nuclear ribonucleoproteins (hnRNPs) are nucleic acid binding proteins and have critical roles in DNA repair, telomere regulation, and transcriptional gene regulation. hnRNP G has tumor suppressive activity and this RNA binding protein which may be involved in pre-mRNA splicing.

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. 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.

Subunit:

Homomultimer. Interacts with SAFB/SAFB1 (By similarity). Found in the supraspliceosome complex. Identified in the spliceosome C complex. Interacts with KHDRBS3. Forms a complex with ILF2, ILF3, YLPM1, KHDRBS1, NCOA5 and PPP1CA. Interacts with CLK2, KHDRBS2, SAFB, TRA2B and YTHDC1. Interacts with ERAP1; the interaction is RNA-independent.

Subcellular Location:

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

Tissue Specificity:

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

Post-translational modifications:

O-glycosylated.

Arg-185 is dimethylated, probably to asymmetric dimethylarginine.

Cleavage of initiator Met is partial. If Met-1 is not removed, it is acetylated. If it is removed, Val-2 is acetylated.

Similarity:

Contains 1 RRM (RNA recognition motif) domain.

SWISS:

P38159

Gene ID:

27316

Database links:

[Entrez Gene: 27316](#) Human

[Entrez Gene: 19655](#) Mouse

[Entrez Gene: 302855](#) Rat

[Oimim: 300199](#) Human

[SwissProt: P38159](#) Human

[SwissProt: Q9WV02](#) Mouse

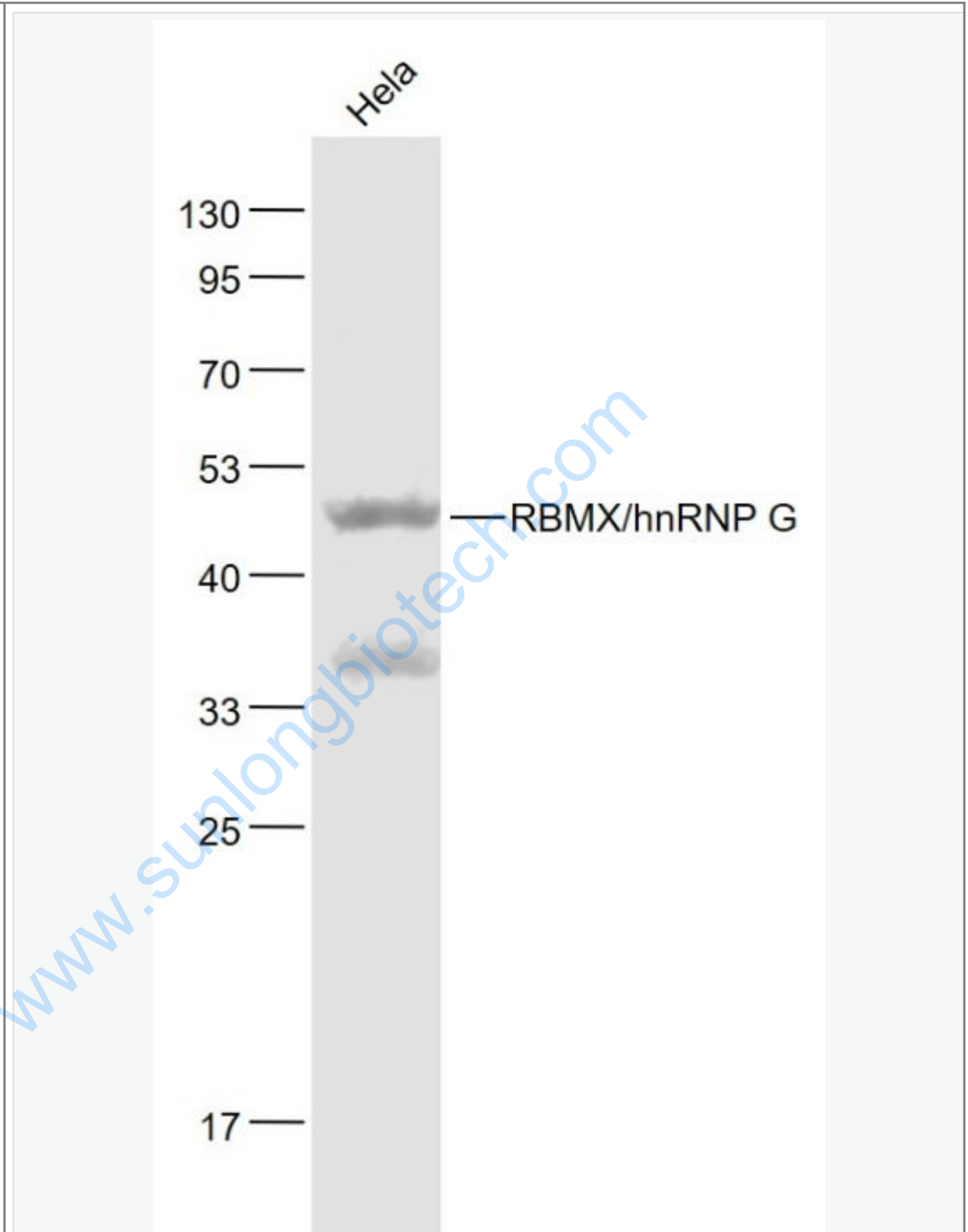
[SwissProt: Q4V898](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Picture:



Sample:

HeLa(Human) Cell Lysate at 30 ug

Primary: Anti- RBMX/hnRNP G (SL6121R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42 kD

Observed band size: 46 kD

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