



hnRNP G Polyclonal Antibody

Catalog No	YP-Ab-01806
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	RBMX
Immunogen	The antiserum was produced against synthesized peptide derived from human hnRNP G. AA range:6-55
Specificity	hnRNP G Polyclonal Antibody detects endogenous levels of hnRNP G protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	hnRNP G;RBMX;RNA-binding motif protein X chromosome;HNRPG;RBMXP1; RNA-binding motif protein;X chromosome;Glycoprotein p43;Heterogeneous nuclear ribonucleoprotein G
Observed Band	40kD
Calculated Molecular Weight	40kD
Cell Pathway	Nucleus . 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).
Function	function:RNA-binding protein which may be involved in pre-mRNA splicing., PTM:Arg-185 is dimethylated, probably to asymmetric dimethylarginine., PTM:Cleavage of initiator Met is partial. If Met-1 is not removed, it is acetylated. If it is removed, Val-2 is acetylated.,PTM:O-glycosylated.,similarity:Contains 1 RRM (RNA recognition motif) domain.,subcellular location:Component of ribonucleosomes.,subunit:Identified in the spliceosome C complex, at least composed of AQR, ASCC3L1, C19orf29, CDC40, CDC5L, CRNKL1, DDX23,



DDX41, DDX48, DDX5, DGCR14, DHX35, DHX38, DHX8, EFTUD2, FRG1, GPATC1, HNRPA1, HNRPA2B1, HNRPA3, HNRPC, HNRPF, HNRPH1, HNRPK, HNRPM, HNRPR, HNRPU, KIAA1160, KIAA1604, LSM2, LSM3, MAGOH, MORG1, PABPC1, PLRG1, PNN, PPIE, PPIL1, PPIL3, PPWD1, PRPF19, PRPF4B, PRPF6, PRPF8, RALY, RBM22, RBM8A, RBMX, SART1, SF3A1, SF3A2, SF3A3, SF3B1, SF3B2, SF3B3, SFRS1, SKIV2L2, SNRPA1, SNRPB, SNRPB2

Background

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],

matters needing attention

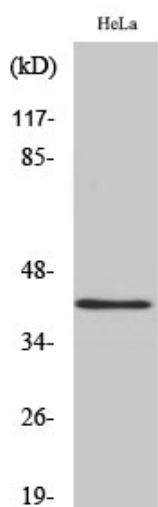
Avoid repeated freezing and thawing!

Usage suggestions

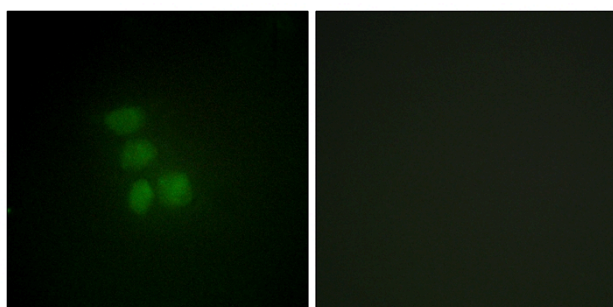
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



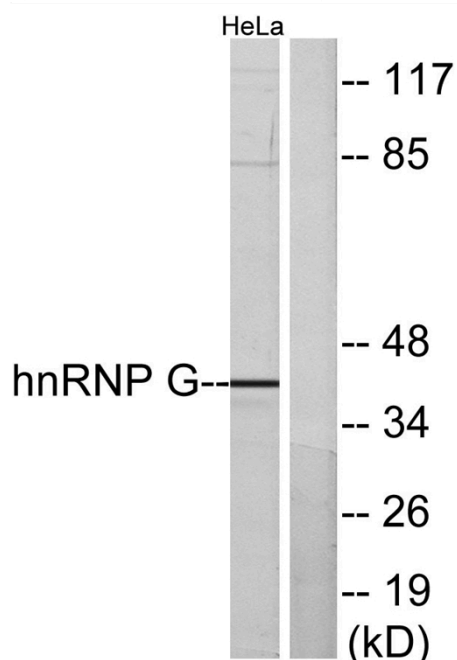
Products Images



Western Blot analysis of various cells using hnRNP G Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Immunofluorescence analysis of HepG2 cells, using hnRNP G Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, using hnRNP G Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA, pH 9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200 (4° overnight). 3, Secondary antibody was diluted at 1:200 (room temperature, 45 min).