

Product datasheet for **AP20416PU-N**

hnRNP G (RBMX) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunofluorescence: 1/50-1/200. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 20-60 of Human hnRNP G.
Specificity:	This antibody detects endogenous levels of hnRNP G protein. (region surrounding Met40)
Formulation:	PBS pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (>95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity-Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~40 kDa
Gene Name:	RNA binding motif protein, X-linked
Database Link:	Entrez Gene 19655 Mouse Entrez Gene 302855 Rat Entrez Gene 27316 Human P38159



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Background:

Heterogeneous nuclear ribonucleoproteins (hnRNPs) constitute a set of polypeptides that contribute to mRNA transcription, pre-mRNA processing as well as mature mRNA transport to the cytoplasm and translation. They also bind heterogeneous nuclear RNA (hnRNA), which are the transcripts produced by RNA polymerase II. There are approximately 20 known hnRNP proteins, and their complexes are the major constituents of the spliceosome. The majority of hnRNP proteins components are localized to the nucleus; however some shuttle between the nucleus and the cytoplasm. hnRNP G is a glycoprotein, which was originally identified as an autoantigen from German shepherd dogs with lupus-like syndrome. The gene encoding hnRNP G is located on chromosome Xq26 and is ubiquitously expressed. It contains one RNP-consensus RNA binding domain (RBD) and is related to RBMY, which is involved in spermatogenesis, and hnRNP G-T, which is a testis specific protein. All three proteins interact with Tra2b and therefore, are involved in pre-mRNA splicing.

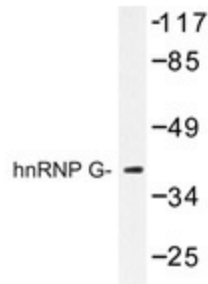
Synonyms:

hnRNP G, RBMXP1, Glycoprotein p43

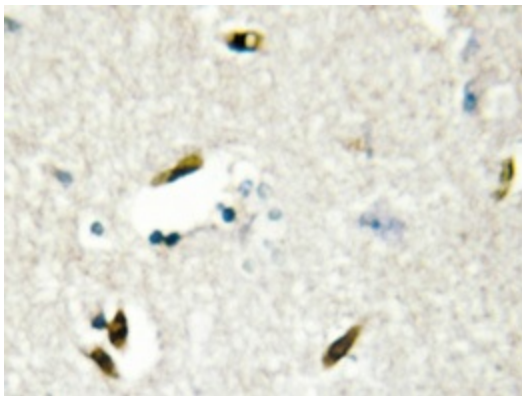
Protein Pathways:

Spliceosome

Product images:



Western blot analysis of hnRNP G antibody (Cat.-No AP20416PU-N) in extracts from HeLa cells.



Immunohistochemistry analyzes of hnRNP G antibody (Cat.-No AP20416PU-N) in paraffin-embedded human brain tissue.