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HNRNPR Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17239a

Product Information

Application	IF, WB, FC, IHC-P-Leica, E
Primary Accession	O43390
Other Accession	NP_001095868.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37032
Calculated MW	70943
Antigen Region	95-123

Additional Information

Gene ID	10236
Other Names	Heterogeneous nuclear ribonucleoprotein R, hnRNP R, HNRNPR, HNRPR
Target/Specificity	This HNRNPR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 95-123 amino acids from the N-terminal region of human HNRNPR.
Dilution	IF~~1:25 WB~~1:2000 FC~~1:25 IHC-P-Leica~~1:1000 E~~Use at an assay dependent concentration.
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	HNRNPR Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HNRNPR
Synonyms	HNRPR

Function	Component of ribonucleosomes, which are complexes of at least 20 other different heterogeneous nuclear ribonucleoproteins (hnRNP). hnRNP play an important role in processing of precursor mRNA in the nucleus.
Cellular Location	Nucleus. Microsome {ECO:0000250|UniProtKB:Q7TMK9}. Nucleus, nucleoplasm. Cytoplasm Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs. The tyrosine phosphorylated form bound to RNA is found in microsomes (By similarity). {ECO:0000250|UniProtKB:Q7TMK9, ECO:0000269|PubMed:17289661}

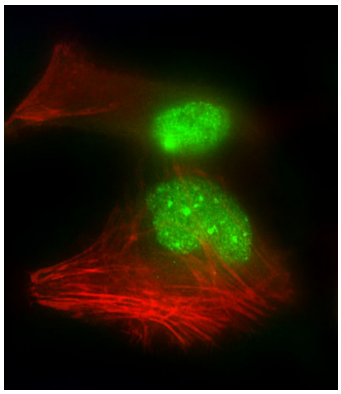
Background

This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA binding proteins and they complex with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. While all of the hnRNPs are present in the nucleus, some seem to shuttle between the nucleus and the cytoplasm. The hnRNP proteins have distinct nucleic acid binding properties. The protein encoded by this gene has three repeats of quasi-RRM domains that bind to RNAs and also contains a nuclear localization motif. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq].

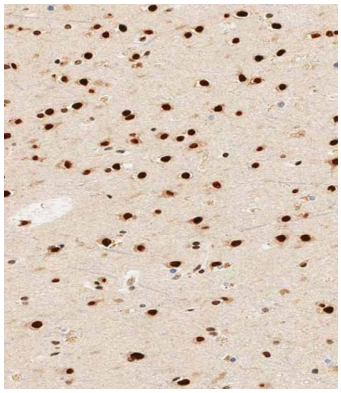
References

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Fukuda, A., et al. J. Biol. Chem. 284(35):23472-23480(2009)
Tonevitsky, E.A., et al. Bull. Exp. Biol. Med. 147(6):733-736(2009)
Wu, C., et al. Proteomics 7(11):1775-1785(2007)
Szafranski, K., et al. Genome Biol. 8 (8), R154 (2007) :

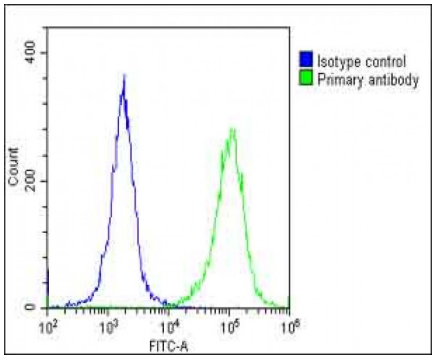
Images



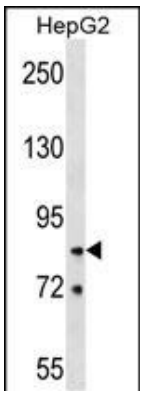
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized Hela cells labeling HNRNPR with AP17239a at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing Nucleus staining on Hela cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin(red). The nuclear counter stain is DAPI (blue).



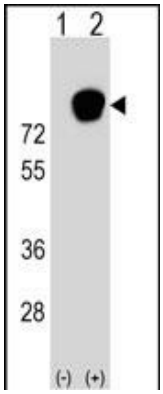
Immunohistochemical analysis of paraffin-embedded human brain tissue using AP17239a performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature; antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:1000) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Overlay histogram showing HeLa cells stained with AP17239a(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP17239a, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



HNRNPR Antibody (N-term) (Cat. #AP17239a) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the HNRNPR antibody detected the HNRNPR protein (arrow).



Western blot analysis of HNRNPR (arrow) using rabbit polyclonal HNRNPR Antibody (N-term) (Cat. #AP17239a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the HNRNPR gene.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.