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HNRNPM Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14009a

Product Information

Application	WB, IHC-P, E
Primary Accession	P52272
Other Accession	NP_112480.2, NP_005959.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33926
Calculated MW	77516
Antigen Region	21-50

Additional Information

Gene ID	4670
Other Names	Heterogeneous nuclear ribonucleoprotein M, hnRNP M, HNRNPM, HNRPM, NAGR1
Target/Specificity	This HNRNPM antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 21-50 amino acids from the N-terminal region of human HNRNPM.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	HNRNPM Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HNRNPM
Synonyms	HNRPM, NAGR1
Function	Pre-mRNA binding protein in vivo, binds avidly to poly(G) and poly(U) RNA

homopolymers in vitro. Involved in splicing. Acts as a receptor for carcinoembryonic antigen in Kupffer cells, may initiate a series of signaling events leading to tyrosine phosphorylation of proteins and induction of IL-1 alpha, IL-6, IL-10 and tumor necrosis factor alpha cytokines.

Cellular Location Nucleus, nucleolus {ECO:0000269|Ref.5}.

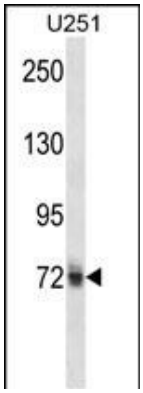
Background

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. This protein also constitutes a monomer of the N-acetylglucosamine-specific receptor which is postulated to trigger selective recycling of immature GlcNAc-bearing thyroglobulin molecules. Multiple alternatively spliced transcript variants are known for this gene but only two transcripts has been isolated.

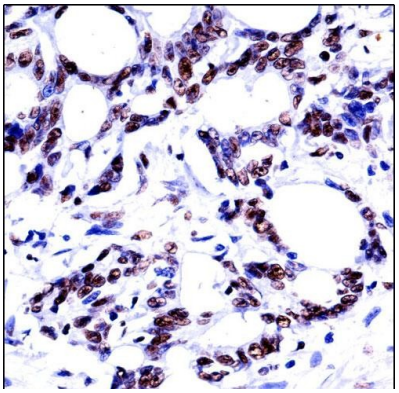
References

Lleres, D., et al. EMBO Rep. 11(6):445-451(2010)
Marko, M., et al. Exp. Cell Res. 316(3):390-400(2010)
Russo, A., et al. Biochim. Biophys. Acta 1779(12):820-829(2008)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Huang, X., et al. Sci. China, C, Life Sci. 43(6):648-654(2000)

Images



HNRNPM Antibody (N-term) (Cat. #AP14009a) western blot analysis in U251 cell line lysates (35ug/lane).This demonstrates the HNRNPM antibody detected the HNRNPM protein (arrow).



HNRNPM Antibody (N-term) (AP14009a)immunohistochemistry analysis in formalin fixed and paraffin embedded human colon carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of HNRNPM Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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