10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HNRPAB Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5522a

Product Information

Application	IHC-P, IF, WB, E
Primary Accession	Q99729
Other Accession	NP_112556
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36225
Antigen Region	1-30

Additional Information

Gene ID	3182
Other Names	Heterogeneous nuclear ribonucleoprotein A/B, hnRNP A/B, APOBEC1-binding protein 1, ABBP-1, HNRNPAB, ABBP1, HNRPAB
Target/Specificity	This HNRPAB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human HNRPAB.
Dilution	IHC-P~~1:100~500 IF~~1:10~50 WB~~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	HNRPAB Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HNRNPAB
Synonyms	ABBP1, HNRPAB
Function	Binds single-stranded RNA. Has a high affinity for G-rich and U-rich regions

	of hnRNA. Also binds to APOB mRNA transcripts around the RNA editing site.
Cellular Location	Nucleus. Cytoplasm. Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs
Tissue Location	Ubiquitous.

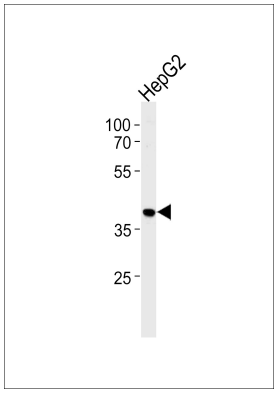
Background

This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are produced by RNA polymerase II and are components of the heterogeneous nuclear RNA (hnRNA) complexes. They 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, which binds to one of the components of the multiprotein editosome complex, has two repeats of quasi-RRM (RNA recognition motif) domains that bind to RNAs.

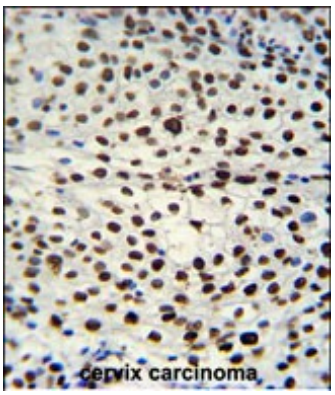
References

Jonson, L., et al. Mol. Cell Proteomics 6(5):798-811(2007)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Beausoleil, S.A., et al. Nat. Biotechnol. 24(10):1285-1292(2006)
Ong, S.E., et al. Nat. Methods 1(2):119-126(2004)

Images

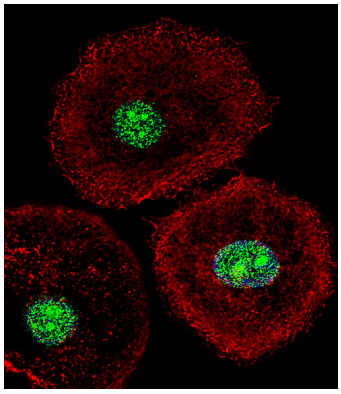


HNRPAB Antibody (N-term) (Cat. #AP5522a) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the HNRPAB antibody detected the HNRPAB protein (arrow).



HNRPAB Antibody (N-term) (Cat. #AP5522a) immunohistochemistry analysis in formalin fixed and paraffin embedded human cervix carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the HNRPAB Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Fluorescent confocal image of MCF-7 cell stained with HNRPAB Antibody (N-term)(Cat#AP5522a).MCF-7 cells were fixed with 4% PFA (20 min), permeabilized with



Triton X-100 (0.1%, 10 min), then incubated with HNRPAB primary antibody (1:25, 1 h at 37℃). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37℃).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37℃). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). HNRPAB immunoreactivity is localized to Nucleus significantly.