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HNRNPC Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10728b

Specification

HNRNPC Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P07910
Other Accession	O77768, Q9Z204, NP_004491.2, G3V9R8
Reactivity	**Human**
Predicted	**Mouse, Rabbit, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**33670**
Antigen Region	**279-306**

HNRNPC Antibody (C-term) - Additional Information

Gene ID 3183

Other Names
Heterogeneous nuclear ribonucleoproteins C1/C2, hnRNP C1/C2, HNRNPC, HNRPC

Target/Specificity
This HNRNPC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 279-306 amino acids from the C-terminal region of human HNRNPC.

Dilution
WB~~1:1000
IHC-P~~1:50~100

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
HNRNPC Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

HNRNPC Antibody (C-term) - Protein Information

Name HNRNPC

Synonyms HNRPC

Function Binds pre-mRNA and nucleates the assembly of 40S hnRNP particles (PubMed:8264621). Interacts with poly-U tracts in the 3'-UTR or 5'-UTR of mRNA and modulates the stability and the level of translation of bound mRNA molecules (PubMed:12509468, PubMed:16010978, PubMed:7567451, PubMed:8264621). Single HNRNPC tetramers bind 230-240 nucleotides. Trimers of HNRNPC tetramers bind 700 nucleotides (PubMed:8264621). May play a role in the early steps of spliceosome assembly and pre-mRNA splicing. N6-methyladenosine (m6A) has been shown to alter the local structure in mRNAs and long non-coding RNAs (lncRNAs) via a mechanism named 'm(6)A-switch', facilitating binding of HNRNPC, leading to regulation of mRNA splicing (PubMed:25719671).

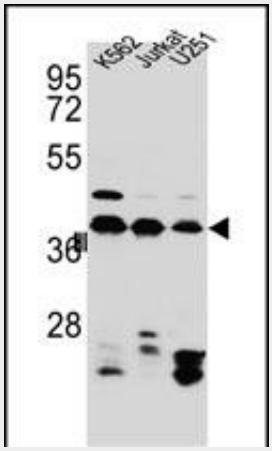
Cellular Location
Nucleus. Note=Component of ribonucleosomes

HNRNPC Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

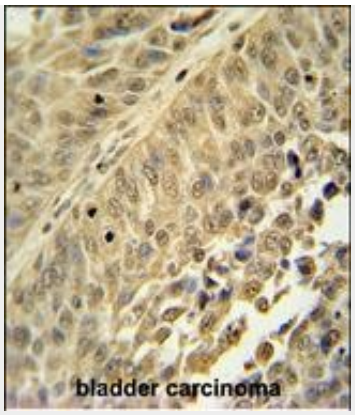
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HNRNPC Antibody (C-term) - Images



HNRNPC Antibody (C-term) (Cat. #AP10728b) western blot analysis in Jurkat,K562,U251 cell line lysates (35ug/lane).This demonstrates the HNRNPC antibody detected the HNRNPC protein (arrow).

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HNRNPC antibody (C-term) (Cat. #AP10728b) immunohistochemistry analysis in formalin fixed and paraffin embedded human bladder carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the HNRNPC antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

HNRNPC Antibody (C-term) - 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 can act as a tetramer and is involved in the assembly of 40S hnRNP particles. Multiple transcript variants encoding at least two different isoforms have been described for this gene. [provided by RefSeq].

HNRNPC Antibody (C-term) - References

Konig, J., et al. Nat. Struct. Mol. Biol. 17(7):909-915(2010)
Lee, E.K., et al. Nat. Struct. Mol. Biol. 17(6):732-739(2010)
Brunner, J.E., et al. Virology 400(2):240-247(2010)
Ertel, K.J., et al. J. Virol. 84(9):4229-4242(2010)
Mosessian, S., et al. J. Biol. Chem. 284(44):30159-30166(2009)