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HNRNPK / hnRNP K Antibody (clone F45 P9 C7)

Mouse Monoclonal Antibody
Catalog # ALS11837

Specification

HNRNPK / hnRNP K Antibody (clone F45 P9 C7) - Product Information

Application	**WB, IHC**
Primary Accession	P61978
Reactivity	**Human, Mouse, Rat, Rabbit, Monkey, Chicken, Goat, Horse, Dog**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**51kDa KDa**

HNRNPK / hnRNP K Antibody (clone F45 P9 C7) - Additional Information

Gene ID 3190

Other Names
Heterogeneous nuclear ribonucleoprotein K, hnRNP K, Transformation up-regulated nuclear protein, TUNP, HNRNPK, HNRPK

Target/Specificity
Ovalbumin-conjugated synthetic Peptide SVKQYSGKFF

Reconstitution & Storage
+4°C, avoid freezing

Precautions
HNRNPK / hnRNP K Antibody (clone F45 P9 C7) is for research use only and not for use in diagnostic or therapeutic procedures.

HNRNPK / hnRNP K Antibody (clone F45 P9 C7) - Protein Information

Name HNRNPK

Synonyms HNRPK

Function
One of the major pre-mRNA-binding proteins. Binds tenaciously to poly(C) sequences. Likely to play a role in the nuclear metabolism of hnRNAs, particularly for pre-mRNAs that contain cytidine-rich sequences. Can also bind poly(C) single-stranded DNA. Plays an important role in p53/TP53 response to DNA damage, acting at the level of both transcription activation and repression. When sumoylated, acts as a transcriptional coactivator of p53/TP53, playing a role in p21/CDKN1A and 14-3-3 sigma/SFN induction (By similarity). As far as transcription repression is concerned, acts by interacting with long intergenic RNA p21 (lincRNA-p21), a non-coding RNA induced by p53/TP53. This interaction is necessary for the induction of apoptosis, but not cell cycle arrest. As part of a ribonucleoprotein complex composed at least of ZNF827, HNRNPL and the

circular RNA circZNF827 that nucleates the complex on chromatin, may negatively regulate the transcription of genes involved in neuronal differentiation (PubMed:33174841).

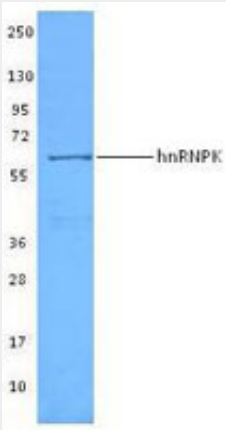
Cellular Location
Cytoplasm. Nucleus, nucleoplasm. Cell projection, podosome. Note=Recruited to p53/TP53-responsive promoters, in the presence of functional p53/TP53 (PubMed:16360036). In case of ASFV infection, there is a shift in the localization which becomes predominantly nuclear (PubMed:18775702)

HNRNPK / hnRNP K Antibody (clone F45 P9 C7) - Protocols

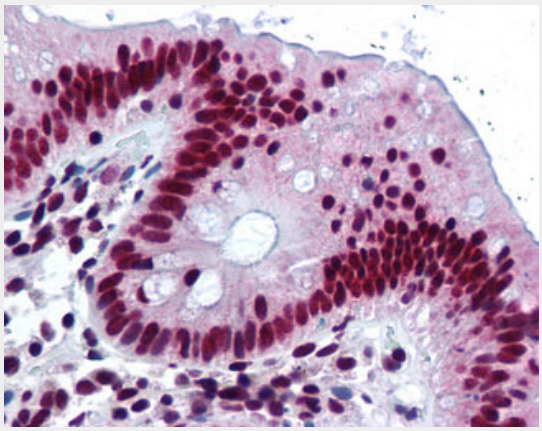
Provided below are standard protocols that you may find useful for product applications.

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

HNRNPK / hnRNP K Antibody (clone F45 P9 C7) - Images



HeLa cell extracts were resolved by electrophoresis, transferred to nitrocellulose, and probed...



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Anti-HNRNPK / hnRNP K antibody IHC of human colon.

HNRNPK / hnRNP K Antibody (clone F45 P9 C7) - Background

One of the major pre-mRNA-binding proteins. Binds tenaciously to poly(C) sequences. Likely to play a role in the nuclear metabolism of hnRNAs, particularly for pre-mRNAs that contain cytidine-rich sequences. Can also bind poly(C) single- stranded DNA. Plays an important role in p53/TP53 response to DNA damage, acting at the level of both transcription activation and repression. When sumoylated, acts as a transcriptional coactivator of p53/TP53, playing a role in p21/CDKN1A and 14-3-3 sigma/SFN induction (By similarity). As far as transcription repression is concerned, acts by interacting with long intergenic RNA p21 (lincRNA-p21), a non-coding RNA induced by p53/TP53. This interaction is necessary for the induction of apoptosis, but not cell cycle arrest.

HNRNPK / hnRNP K Antibody (clone F45 P9 C7) - References

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Dejgaard K.,et al.J. Mol. Biol. 236:33-48(1994).
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