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KD-Validated Anti-HNRNPK Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1479

Specification

KD-Validated Anti-HNRNPK Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P61978
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 51 kD a , observed, 60 kDa KDa**
Gene Name	**HNRNPK**
Aliases	**HNRNPK; Heterogeneous Nuclear Ribonucleoprotein K; TUNP; HNRPK; CSBP; Transformation Upregulated Nuclear Protein; Transformation Up-Regulated Nuclear Protein; DC-Stretch Binding Protein; HnRNP K; AUKS**
Immunogen	**A synthesized peptide derived from human hnRNP K**

KD-Validated Anti-HNRNPK Rabbit Monoclonal Antibody - Additional Information

Gene ID	**3190**

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

KD-Validated Anti-HNRNPK Rabbit Monoclonal Antibody - 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).

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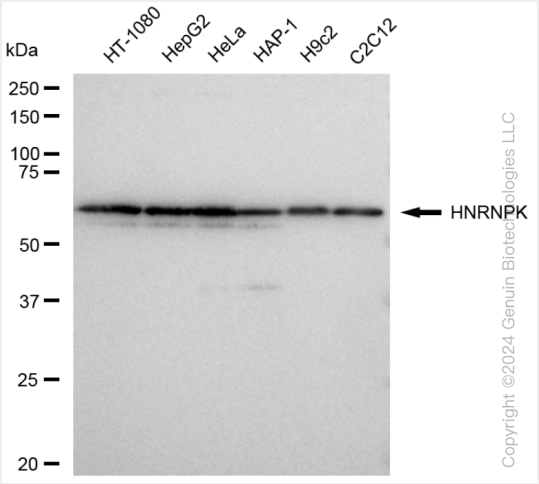
Cellular Location
Cytoplasm. Nucleus, nucleoplasm. Cell projection, podosome. Note=Recruited to p53/TP53-responsive promoters, in the presence of functional p53/TP53 (PubMed:16360036). In case of ASFV infection, there is a shift in the localization which becomes predominantly nuclear (PubMed:18775702)

KD-Validated Anti-HNRNPK Rabbit Monoclonal Antibody - Protocols

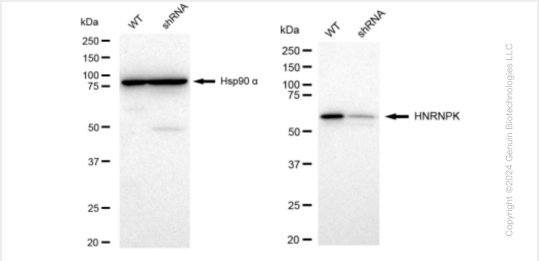
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-HNRNPK Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-HNRNPK antibody (Cat#AGI1479). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-HNRNPK antibody (Cat#AGI1479, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-HNRNPK antibody (Cat#AGI1479). HNRNPK expression in wild type (WT) and HNRNPK shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-HNRNPK antibody (Cat#AGI1479, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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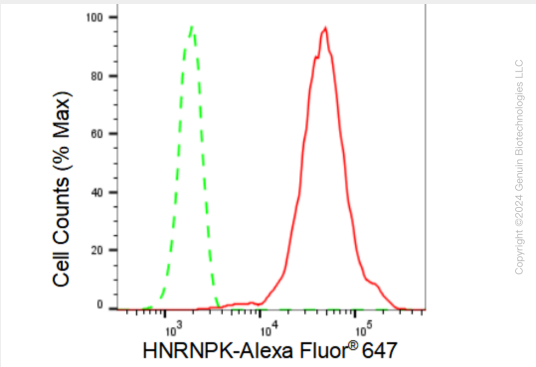

Flow cytometric analysis of HNRNPK expression in HepG2 cells using HNRNPK antibody (Cat#AGI1479, 1:2,000). Green, isotype control; red, HNRNPK.