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hnRNP K Antibody

Rabbit mAb
Catalog # AP90635

Product Information

Application	WB, IHC, IF, ICC, IP, IHF
Primary Accession	P61978
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	65 kDa phosphoprotein; CSBP; TUNP; HNRNPK; HNRPK; DC-stretch binding protein; hnRNP-K;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	50976

Additional Information

Dilution	WB 1:5000~1:10000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:20
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human hnRNP K
Description	Facilitate pre-mRNA processing and transport of mRNA from the nucleus to cytoplasm. hnRNP K contains three unique structural motifs termed KH domains that bind poly(C) DNA and RNA sequences. Intricate architecture enables hnRNP K to facilitate mRNA biosynthesis, transcriptional regulation, and signal transduction. Research studies have shown that cytoplasmic hnRNP K expression is increased in oral squamous cell carcinoma and pancreatic cancer, and may be a potential prognostic factor.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

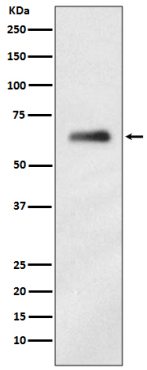
Name	HNRNPK
Synonyms	HNRPK
Function	One of the major pre-mRNA-binding proteins. Binds tenaciously to poly(C) sequences. Likely to play a role in the nuclear metabolism of hnRNAs, particularly for pre-mRNAs that contain cytidine-rich sequences. Can also bind poly(C) single-stranded DNA. Plays an important 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. 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=In case of ASFV infection, there is a shift in the localization which becomes predominantly nuclear (PubMed:18775702)

Images



Western blot analysis of hnRNP K expression in Jurkat cell lysate.

Image not found : 202311/AP90635-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human colon, using hnRNP K Antibody.

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