





## HNRNPK Recombinant Monoclonal Antibody

| Product Code CSE   | B-RA010611A0HU   |
|--|--|
| Abbreviation Hete  | erogeneous nuclear ribonucleoprotein K   |
| <b>Storage</b> Upo   | on receipt, store at -20°C or -80°C. Avoid repeated freeze.  |
| Uniprot No. P61  | 1978   |
| <b>Immunogen</b> A sy  | ynthesized peptide derived from human HNRNPK   |
| Species Reactivity Hum   | man  |
| • •  | SA, WB, IHC, IF, IP; Recommended dilution: WB:1:500-1:5000,<br>0:1:50-1:200, IF:1:20-1:200, IP:1:200-1:1000  |
| sequ<br>parti<br>poly  | e of the major pre-mRNA-binding proteins. Binds tenaciously to poly(C) quences. Likely to play a role in the nuclear metabolism of hnRNAs, ticularly for pre-mRNAs that contain cytidine-rich sequences. Can also bind y(C) single-stranded DNA. Plays an important role in p53/TP53 response to A damage, acting at the level of both transcription activation and repression.  |
| Whe<br>role<br>trans<br>RNA  | en sumoylated, acts as a transcriptional coactivator of p53/TP53, playing a in p21/CDKN1A and 14-3-3 sigma/SFN induction (By similarity). As far as asscription repression is concerned, acts by interacting with long intergenic A p21 (lincRNA-p21), a non-coding RNA induced by p53/TP53. This graction is necessary for the induction of apoptosis, but not cell cycle arrest.   |
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| Form Lique Conjugate Non Storage Buffer Rab azid Purification Method Affin Isotype Rab Clonality Mon Alias Hete regularity Immunogen Species Hom Research Area Epig              | in p21/CDKN1A and 14-3-3 sigma/SFN induction (By similarity). As far as a scription repression is concerned, acts by interacting with long intergenic A p21 (lincRNA-p21), a non-coding RNA induced by p53/TP53. This fraction is necessary for the induction of apoptosis, but not cell cycle arrest.  Luid  n-conjugated  bbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium de and 50% glycerol.  Inity-chromatography  bbit IgG  noclonal  erogeneous nuclear ribonucleoprotein K, hnRNP K, Transformation upulated nuclear protein, TUNP, HNRNPK, HNRPK  mo sapiens (Human)  |
| When role trans RNA inter  Form Liquid  Conjugate Non Storage Buffer Rab azid  Purification Method Affirm  Isotype Rab  Clonality Mon Alias Hete regulation Research Area Epiger | e in p21/CDKN1A and 14-3-3 sigma/SFN induction (By similarity). As far as a secription repression is concerned, acts by interacting with long intergenic A p21 (lincRNA-p21), a non-coding RNA induced by p53/TP53. This eraction is necessary for the induction of apoptosis, but not cell cycle arrest. Usid an-conjugated belief to be and 50% glycerol.  Inity-chromatography  Debit IgG  Inoclonal  Derogeneous nuclear ribonucleoprotein K, hnRNP K, Transformation upulated nuclear protein, TUNP, HNRNPK, HNRPK  The sapiens (Human)  Genetics and Nuclear Signaling  RNPK   |

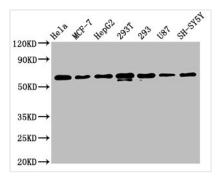
## **CUSABIO TECHNOLOGY LLC**











Western Blot

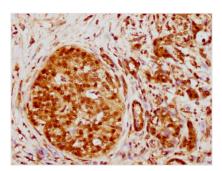
Positive WB detected in: Hela whole cell lysate, MCF-7 whole cell lysate, HepG2 whole cell lysate, 293T whole cell lysate, 293 whole cell lysate, U87 whole cell lysate, SH-SY5Y whole cell lysate

All lanes: HNRNPK antibody at 1.3µg/ml Secondary

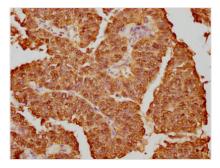
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 51, 52, 49 KDa

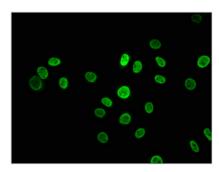
Observed band size: 60 KDa



IHC image of CSB-RA010611A0HU diluted at 1:130.5 and staining in paraffin-embedded human pancreatic cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



IHC image of CSB-RA010611A0HU diluted at 1:130.5 and staining in paraffin-embedded human cervical cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

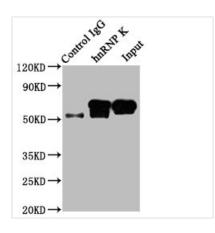


Immunofluorescence staining of A549 cells with CSB-RA010611A0HU at 1:43.5, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4?. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG (H+L).









Immunoprecipitating HNRNPK in HepG2 whole

Lane 1: Rabbit control IgG instead of CSB-RA010611A0HU in HepG2 whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

Lane 2: CSB-RA010611A0HU (3μg) + HepG2

whole cell lysate (500μg)

Lane 3: HepG2 whole cell lysate (20µg)

## Description

The recombinant HNRNPK antibody production commenced with the obtaining of genes encoding antibody against HNRNPK. Antibody genes were obtained by sequencing and screening DNA reversely transcribed from RNA that was extracted from the B cells isolated from immunized animals. These genes were cloned into plasma vectors and subsequently transfected into a mammalian cell line for production. The product is the recombinant HNRNPK antibody. It underwent purification using affinity-chromatography from the cell culture medium. This recombinant HNRNPK antibody has been validated to detect the HNRNPK protein from Human in the ELISA, WB, IHC, IF, IP.

HNRNPK is a DNA/RNA-binding protein involved in multiple biological processes including the regulation of gene transcription, pre-mRNA splicing, mRNA nuclear export, mRNA translation, RNA stability, chromatin remodeling, and decay. Dysregulation of HNRNPK is related to carcinogenesis, cancer development, progression, and prognosis. In some malignancies, HNRNPK is linked to dismal prognosis. In addition to oncogenic functions, HNRNPK, ad a transcriptional co-activator of p53, may act as a tumor suppressor and loss of HNRNPK was prone to cause tumorigenesis.