

HNRNPK Antibody

Catalog No: #32393

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	HNRNPK Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total HNRNPK protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human HNRNPK.
Target Name	HNRNPK
Other Names	CSBP; FLJ41122; HNRPK; TUNP;
Accession No.	Swiss-Prot:P61978NCBI Gene ID:3190
SDS-PAGE MW	51KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

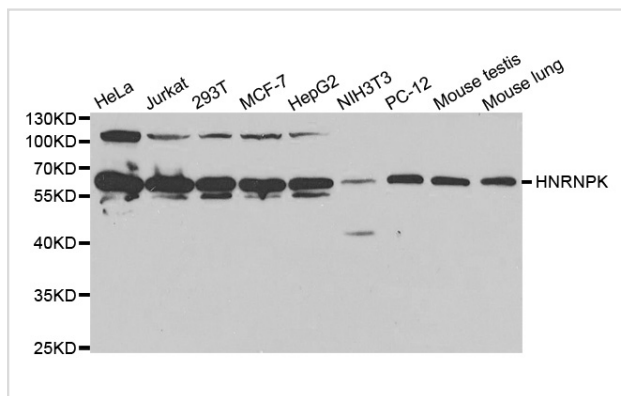
Application Details

Western blotting: 1:500 - 1:2000

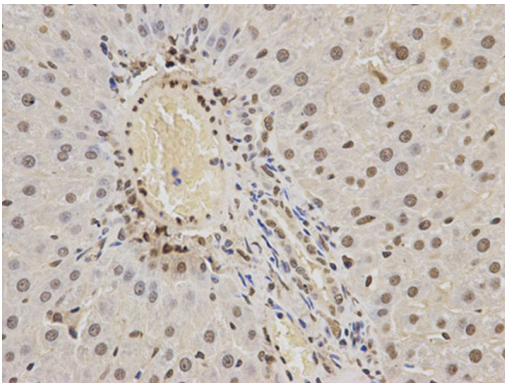
Immunohistochemistry: 1:50 - 1:100

Immunofluorescence: 1:50 - 1:200

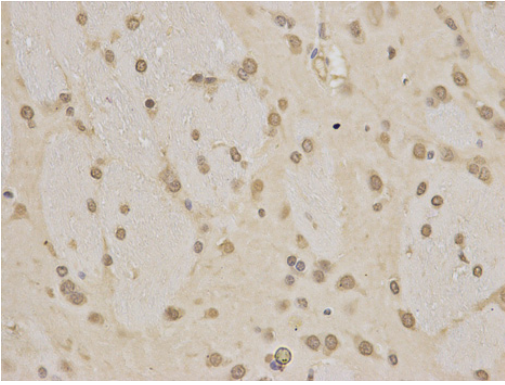
Images



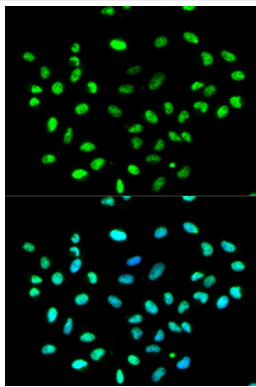
Western blot analysis of extracts of various cell lines, using HNRNPK antibody.



Immunohistochemical analysis of paraffin-embedded rat brain using HNRNPK antibody at dilution of 1:200 (400x lens).



Immunohistochemical analysis of paraffin-embedded rat liver using HNRNPK antibody at dilution of 1:200 (400x lens).



Immunofluorescence analysis of MCF7 cell using HNRNPK antibody. Blue: DAPI for nuclear staining.

Background

Heterogeneous nuclear ribonucleoprotein K (hnRNP K) belongs to a family of RNA binding multiprotein complexes (hnRNP proteins) that facilitate pre-mRNA processing and transport of mRNA from the nucleus to cytoplasm (1-3). hnRNP K contains three unique structural motifs termed KH domains that bind poly(C) DNA and RNA sequences (4,5). Intricate architecture enables hnRNP K to facilitate mRNA biosynthesis (6), transcriptional regulation (7), 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 (8,9). hnRNP K coordinates with p53 to regulate its target gene transcription in response to DNA damage. Proteasome degradation of hnRNP K is mediated by E3 ligase MDM2 (10). The interaction between hnRNP K and c-Src leads to hnRNP K phosphorylation, which allows for hnRNP K activation of silenced mRNA translation (11).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.