

**HNRPK Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2857a****Specification**

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**HNRPK Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P61978](#)**HNRPK Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 3190**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2857a](/products/AP2857a) was selected from the N-term region of human HNRPK. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**HNRPK Antibody (N-term) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/33174841" target="\_blank">33174841</a>).

#### **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)

#### **HNRPK Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **HNRPK Antibody (N-term) Blocking Peptide - Images**

#### **HNRPK Antibody (N-term) Blocking Peptide - Background**

HNRPK belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA binding proteins and they complex with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. While all of the hnRNPs are present in the nucleus, some seem to shuttle between the nucleus and the cytoplasm. The hnRNP proteins have distinct nucleic acid binding properties. HNRPK is located in the nucleoplasm and has three repeats of KH domains that binds to RNAs. The protein is distinct among other hnRNP proteins in its binding preference; it binds tenaciously to poly(C). This protein is also thought to have a role during cell cycle progression.

#### **HNRPK Antibody (N-term) Blocking Peptide - References**

Hsieh T.-Y., Matsumoto M., Chou H.-C., Schneider R., Hwang S.B., Lee A.S., Lai M.M.C.J. Biol. Chem. 273:17651-17659(1998) Kwiek N.C., Thacker D.F., Datto M.B., Megosh H.B., Cell. Signal. 18:1769-1778(2006) Dejgaard K., Leffers H., Rasmussen H.H., Madsen P., J. Mol. Biol. 236:33-48(1994) Hernaez B., Escibano J.M., Alonso C. FEBS Lett. 582:3275-3280(2008)