

Product datasheet for **AM05384PU-N**

hnRNP K (HNRNPK) Mouse Monoclonal Antibody [Clone ID: F45 P9 C7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	F45 P9 C7
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1-2 µg/ml. Immunohistochemistry on Formalin-Fixed, Paraffin-Embedded Tissues: 1-5 µg/ml. Positive Controls: Colorectal cancer tissue, Calu6 and HT29 cell lysates.
Reactivity:	Chicken, Human, Mouse, Rabbit, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with a synthetic peptide derived from the C-terminal of the hnRNP-K protein and Mouse myeloma Ag8563 cells.
Specificity:	This antibody reacts to Heterogeneous Nuclear Ribonucleoprotein K.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.08% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A/G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	51 kDa
Gene Name:	heterogeneous nuclear ribonucleoprotein K
Database Link:	Entrez Gene 3190 Human P61978



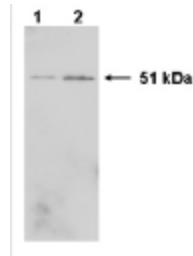
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Background:

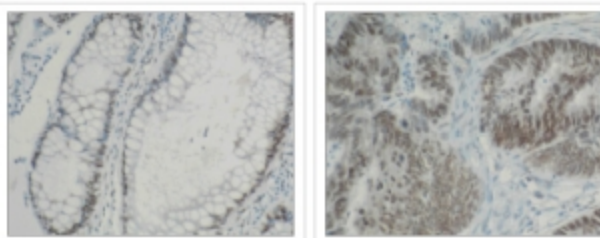
Heterogeneous nuclear ribonucleoproteins (hnRNPs) constitute a set of polypeptides that contribute to mRNA transcription and premRNA processing as well as mature mRNA transport to the cytoplasm and translation. They also bind heterogeneous nuclear RNA (hnRNA), which are the transcripts produced by RNA Polymerase II. There are approximately 20 known hnRNP proteins, which range in size from 34 kDa to 120 kDa, and their complexes are the major constituents of the spliceosome. The majority of hnRNP protein components are localized to the nucleus; however some shuttle between the nucleus and the cytoplasm, such as hnRNP K. hnRNP K, a 65 kDa protein, recruits a variety of molecular partners through two K homologous (KH) domains, which are required for protein-protein interactions. hnRNP K also contains several potential phosphorylation sites, including Ser 302, the major site of PKCd phosphorylation, which are thought to regulate various cellular functions, including sequence-specific DNA binding, transcription, RNA binding and nucleocytoplasmic shuttling.

Synonyms:

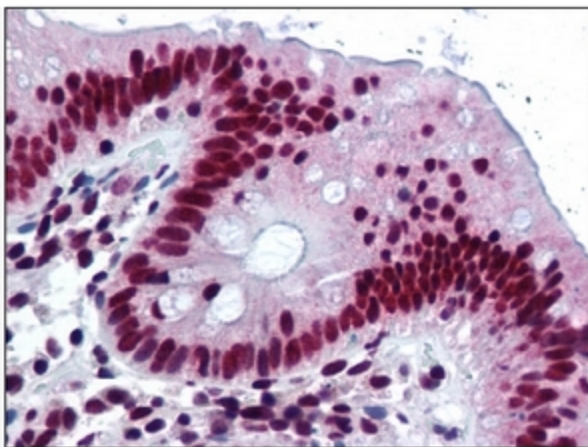
HNRPK, Heterogeneous nuclear ribonucleoprotein K, TUNP

Product images:

Western blot: hnRNP-K staining of Calu6 (Lane 1) and HT29 (Lane 2) cell lysates.



hnRNP-K antibody staining of Formalin-Fixed, Paraffin-Embedded Normal Colon (Left) and Colon Carcinoma (Right).



hnRNP-K antibody staining of Formalin-Fixed, Paraffin-Embedded Human Colon at 15 ug/ml followed by biotinylated anti-Mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.