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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Heterogeneous Nuclear Ribonucleoprotein K. Mouse Monoclonal Antibody
hnRNP-K; CSBP; TUNP; dC-Stretch Binding Protein

BACKGROUND

Heterogeneous nuclear ribonucleoproteins (hnRNPs) constitute a set of polypeptides that contribute to mRNA transcription and pre-mRNA 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 proteins 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.

ORDERING INFORMATION

CATALOG NUMBER
X2068M

SIZE
200 µg
FORM
Unconjugated

HOST/CLONE
Mouse Clone F45 P9 C7

FORMULATION
Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION
See vial for concentration

ISOTYPE
IgG1

APPLICATIONS
Western Blot, Immunohistochemistry

SPECIES REACTIVITY
Human, Mouse, Rat, Rabbit, Chicken

ACCESSION NUMBER
Human P61978

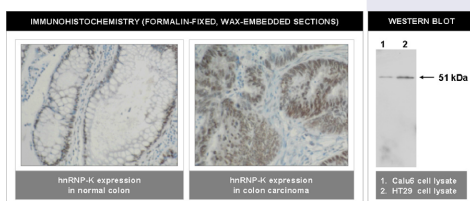
IMMUNOGEN

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. Sequence common in human, mouse, rat, rabbit and chicken

Left and Center:

Immunohistochemical staining of normal colon (left) and colon carcinoma (center) using hnRNP-K antibody (Cat. No. X2068M).

Right: Western blot using hnRNP-K antibody on Calu6 (1) and HT29 (2) cell lysates.



POSITIVE CONTROL/TISSUE EXPRESSION

Colorectal cancer tissue, Calu6 and HT29 cell lysates

COMMENTS

Antibody can be used for Western blotting (1-2 $\mu\text{g/ml}$) and immunohistochemistry on formalin-fixed, paraffin-embedded tissues (1-5 $\mu\text{g/ml}$). Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Protein A/G Chromatography

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C . Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Wei, C.C., et al. (2006). Heterogeneous nuclear ribonucleoprotein K modulates angiotensinogen gene expression in kidney cells. *J. Biol. Chem.* 281(35):25344-25355
2. Dzwonek, A., et al. (2006). The diverse involvement of heterogeneous nuclear ribonucleoprotein K in mitochondrial response to insulin. *FEBS Lett.* 580(7):1839-1845
3. Carpenter, B., et al. (2006). Heterogeneous nuclear ribonucleoprotein K is over expressed, aberrantly localised and is associated with poor prognosis in colorectal cancer. *Br. J. Cancer.* 95(7):921-927

PRODUCT SPECIFIC REFERENCES