hnRNP K (D-6): sc-28380

**BACKGROUND**

Heterogeneous nuclear ribonucleoproteins (hnRNPs) constitute a set of polypeptides that contribute to mRNA transcription, 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 proteins 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 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 PKC ε phosphorylation, which are thought to regulate various cellular functions, including sequence-specific DNA binding, transcription, RNA binding and nucleocytoplasmic shuttling.

**CHROMOSOMAL LOCATION**

Genetic locus: HNRNPK (human) mapping to 9q21.32; Hnrnpk (mouse) mapping to 13 B1.

**SOURCE**

hnRNP K (D-6) is a mouse monoclonal antibody raised against amino acids 1-300 of hnRNP K of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

hnRNP K (D-6) is available conjugated to agarose (sc-28380 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-28380 HRP), 200 µg/ml, for WB, (HICP) and ELISA; to either phycoerythrin (sc-28380 PE), fluorescein (sc-28380 FITC), Alexa Fluor® 488 (sc-28380 AF488), Alexa Fluor® 546 (sc-28380 AF546), Alexa Fluor® 594 (sc-28380 AF594) or Alexa Fluor® 647 (sc-28380 AF647), 200 µg/ml, for WB (RGB), IF, IHC(F) and FCM; and to either Alexa Fluor® 680 (sc-28380 AF680) or Alexa Fluor® 790 (sc-28380 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

hnRNP K (D-6) is recommended for detection of hnRNP K of mouse, rat and human origin by Western Blotting (starting dilution 1:5000, dilution range 1:5000-1:100000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500, immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of hnRNP K: 65 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or L8 cell lysate: sc-3807.

**STORAGE**

Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

hnRNP K (D-6): sc-28380. Near-infrared western blot analysis of hnRNP K expression in HeLa (A), KNRK (B), NIH/3T3 (C), LADMAC (D), L8 (E) and RPE-J (F) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-510214. Detection reagent used: m-IgGx BP-680 sc: 516180.

hnRNP K (D-6): sc-28380. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear and cytoplasmic localization (A); immunoperoxidase staining of formalin fixed, paraffin embedded human adrenal gland tissue showing nuclear and cytoplasmic staining of glandular cells (B).

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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