4675

hnRNP K (R332) Antibody



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| Applications: W, IF-IC, FC-FP | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 58-62 | Source/Isotype: Rabbit | UniProt ID: #P61978 | Entrez-Gene Id: 3190 |
|---|--------------------------------|--|---------------------------|----------------------------------|------------------------|-----------------------------------|
| Product Usage Information | • | Application Western Blotting Immunofluorescence Flow Cytometry (Fixed | | iistry) | | Dilution 1:1000 1:100 1:50 |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody. | | | | |
| Specificity/Sensitivity | | hnRNP K (R332) Antibody detects endogenous level of total hnRNP K protein. | | | | |
| Source / Purification | | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg332 of human hnRNP K protein. Antibodies were purified by protein A and peptide affinity chromatography. | | | | |
| 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). | | | | |
| Background References | | Dreyfuss, G. et al. (1993) <i>Annu Rev Biochem</i> 62, 289-321. Siomi, H. et al. (1994) <i>Cell</i> 77, 33-9. Miau, L.H. et al. (1998) <i>J Biol Chem</i> 273, 10784-91. Tomonaga, T. and Levens, D. (1995) <i>J Biol Chem</i> 270, 4875-81. Choi, H.S. et al. (2009) <i>Biochem Biophys Res Commun</i> 380, 431-6. Bustelo, X.R. et al. (1995) <i>Mol Cell Biol</i> 15, 1324-32. Michelotti, E.F. et al. (1996) <i>Mol Cell Biol</i> 16, 2350-60. Zhou, R. et al. (2010) <i>Int J Cancer</i> 126, 395-404. Matta, A. et al. (2009) <i>Int J Cancer</i> 125, 1398-406. Moumen, A. et al. (2005) <i>Cell</i> 123, 1065-78. Ostareck-Lederer, A. et al. (2002) <i>Mol Cell Biol</i> 22, 4535-43. | | | | |

Species Reactivity Spe

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey

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