

**hnRNP K (R332) Antibody**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IF-IC, FC-FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 58-62	<b>Source/Isotype:</b> Rabbit
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:1000 1:100 1:50
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
<b>Specificity/Sensitivity</b>	hnRNP K (R332) Antibody detects endogenous level of total hnRNP K protein.	
<b>Source / Purification</b>	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.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Dreyfuss, G. et al. (1993) <i>Annu Rev Biochem</i> 62, 289-321.</li> <li>2. Siomi, H. et al. (1994) <i>Cell</i> 77, 33-9.</li> <li>3. Miao, L.H. et al. (1998) <i>J Biol Chem</i> 273, 10784-91.</li> <li>4. Tomonaga, T. and Levens, D. (1995) <i>J Biol Chem</i> 270, 4875-81.</li> <li>5. Choi, H.S. et al. (2009) <i>Biochem Biophys Res Commun</i> 380, 431-6.</li> <li>6. Bustelo, X.R. et al. (1995) <i>Mol Cell Biol</i> 15, 1324-32.</li> <li>7. Michelotti, E.F. et al. (1996) <i>Mol Cell Biol</i> 16, 2350-60.</li> <li>8. Zhou, R. et al. (2010) <i>Int J Cancer</i> 126, 395-404.</li> <li>9. Matta, A. et al. (2009) <i>Int J Cancer</i> 125, 1398-406.</li> <li>10. Moumen, A. et al. (2005) <i>Cell</i> 123, 1065-78.</li> <li>11. Ostareck-Lederer, A. et al. (2002) <i>Mol Cell Biol</i> 22, 4535-43.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>W:</b> Western Blotting <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse <b>R:</b> Rat <b>Mk:</b> Monkey
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