hnRNP K (D9A8) Rabbit mAb



_



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 58-62	Source/Isotype: Rabbit IgG	UniProt ID: #P61978	Entrez-Gene Id: 3190		
Product Usage Information Storage		Application Western Blotting Immunoprecipitation Supplied in 10 mM sod	lium HEPES (pH 7.5	i), 150 mM NaCl, 100 μg	Dilution 1:1000 1:50 /ml BSA, 50% glycer	ol and less than		
		0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.						
Specificity/Sensitivity		hnRNP K (D9A8) Rabbit mAb recognizes endogenous levels of total hnRNP K protein.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human hnRNP K protein.						
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 Re	eferences	 Dreyfuss, G. et al. (1993) Annu Rev Biochem 62, 289-321. Siomi, H. et al. (1994) Cell77, 33-9. Miau, L.H. et al. (1998) J Biol Chem 273, 10784-91. Tomonaga, T. and Levens, D. (1995) J Biol Chem 270, 4875-81. Choi, H.S. et al. (2009) Biochem Biophys Res Commun 380, 431-6. Bustelo, X.R. et al. (1995) Mol Cell Biol 15, 1324-32. Michelotti, E.F. et al. (1996) Mol Cell Biol 16, 2350-60. Zhou, R. et al. (2000) Int J Cancer 126, 395-404. Matta, A. et al. (2009) Int J Cancer 125, 1398-406. Moumen, A. et al. (2005) Cell 123, 1065-78. Ostareck-Lederer, A. et al. (2002) Mol Cell Biol 22, 4535-43. 						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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.				ו 5% w/v BSA, 1X		
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
Trademarks ar	marks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.							
		All other trademarks a more information.	re the property of	heir respective owners.	Visit cellsignal.com	/trademarks for		
Limited Uses		Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless						

separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.