Store at -200

hnRNP A1 (K350) Antibody



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Applications: WB, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 34, 39 kd	Source: Rabbit	UniProt ID: #P09651	Entrez-Gene Id: 3178
Product Usage Information	Ap	plication				Dilution
	We	estern Blotting				1:1000
	Im	munoprecipitation				1:50
	Im	munofluorescence (Immunocytochemis	stry)		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 / Sensiti	ivity hnF	NP A1 (K350) Antib	ody detects both is	oforms of endogeno	ous hnRNP A1 protein.	
Source / Purification	resi		ys350 of human hn	•	th a synthetic peptide co tibodies were purified b	, ,
Background	RNA nuc and is e Alth whe acti	Heterogeneous nuclear ribonucleoprotein A1 (hnRNP A1) is a member of the hnRNP A/B family of related RNA binding proteins that bind pre-mRNA and are involved in the processing, metabolism, and transport of nuclear pre-mRNA transcripts (1). hnRNP A1 regulates the alternative splicing of c-Src and c-H-Ras (2,3) and modifies initiation of translation of the fibroblast growth factor 2 mRNA (4). hnRNP A1 expression level is elevated in many cancers; knockdown of hnRNP A1 leads to apoptosis in various cancer cells (5). Although predominantly nuclear, hnRNP A1 is continually transported from the nucleus to the cytoplasm where it disassociates from mRNA and is rapidly re-imported into the nucleus (6,7). hnRNP A1 binds to cisacting repressive sequences (CRS) of HIV-1 to influence HIV-1 production (8,9). HIV-1 enhances hnRNP A1 expression and promotes the relocalization of hnRNP A1 to the cytoplasm (10).				
Background Refere	2. R 3. G 4. B 5. P 6. P 7. S 8. B 9. H	 Myer, V.E. and Steitz, J.A. (1995) RNA 1, 171-82. Rooke, N. et al. (2003) Mol Cell Biol 23, 1874-84. Guil, S. et al. (2003) Mol Cell Biol 23, 2927-41. Bonnal, S. et al. (2005) J Biol Chem 280, 4144-53. Patry, C. et al. (2003) Cancer Res 63, 7679-88. Piñol-Roma, S. and Dreyfuss, G. (1992) Nature 355, 730-2. Siomi, M.C. et al. (1997) J Cell Biol 138, 1181-92. Black, A.C. et al. (1996) Virus Genes 12, 275-85. Hadian, K. et al. (2009) J Biol Chem 284, 33384-91. Monette, A. et al. (2009) J Biol Chem 284, 31350-62. 				

Species Reactivity 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

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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1/1/24, 8:06 AM **Limited Uses**

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