hnRNP A1 (R196) Antibody



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Applications: W, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 34, 40	Source/Isotype: Rabbit	UniProt ID: #P09651	Entrez-Gene Id: 3178
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence	(Immunocytochen	nistry)		Dilution 1:1000 1:50 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 A1 (R196) Antibody detects both isoforms of endogenous hnRNP A1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg196 of human hnRNP A1 protein. Antibodies were purified by protein A and peptide affinity chromatography.				
Background		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 cis-acting 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 References		1. Myer, V.E. and Steitz, J.A. (1995) RNA 1, 171-82. 2. Rooke, N. et al. (2003) Mol Cell Biol 23, 1874-84. 3. Guil, S. et al. (2003) Mol Cell Biol 23, 2927-41. 4. Bonnal, S. et al. (2005) J Biol Chem 280, 4144-53. 5. Patry, C. et al. (2003) Cancer Res 63, 7679-88. 6. Piñol-Roma, S. and Dreyfuss, G. (1992) Nature 355, 730-2. 7. Siomi, M.C. et al. (1997) J Cell Biol 138, 1181-92. 8. Black, A.C. et al. (1996) Virus Genes 12, 275-85. 9. Hadian, K. et al. (2009) J Biol Chem 284, 33384-91. 10. 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		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)				
Applications Ke	ey .	w: western Biotting I	: Immunoprecipit	ation IF-IC: Immunofluoi	rescence (Immuno	cytochemistry)

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