e at -20C	hnRNP A1 (R196) Antibody	T I	Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 34, 40	Source: Rabbit	UniProt ID: #P09651	Entrez-Gene Id: 3178		
Product Usage		pplication				Dilution		
Information	W	estern Blotting				1:1000		
	In	nmunoprecipitation				1:50		
	In	nmunofluorescence (I	mmunocytochemis	try)		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 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 References		 Myer, V.E. and Steitz, J.A. (1995) <i>RNA</i> 1, 171-82. Rooke, N. et al. (2003) <i>Mol Cell Biol</i> 23, 1874-84. Guil, S. et al. (2003) <i>Mol Cell Biol</i> 23, 2927-41. Bonnal, S. et al. (2005) <i>J Biol Chem</i> 280, 4144-53. Patry, C. et al. (2003) <i>Cancer Res</i> 63, 7679-88. Piñol-Roma, S. and Dreyfuss, G. (1992) <i>Nature</i> 355, 730-2. Siomi, M.C. et al. (1996) <i>Virus Genes</i> 12, 275-85. Hadian, K. et al. (2009) <i>J Biol Chem</i> 284, 33384-91. Monette, A. et al. (2009) <i>J Biol Chem</i> 284, 31350-62. 						
Species Reactivity	y Spe	cies reactivity is dete	rmined by testing ir	n at least one appro	ved application (e.g., w	estern 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		3: Western Blotting IP	: Immunoprecipitat	ion IF-IC: Immunof	luorescence (Immunocy	vtochemistry)		
Cross-Reactivity Key		 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster 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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hnRNP A1 (R196) Antibody (#5380) Datasheet Without Images Cell Signaling Technology

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