hnRNP A1 (D21H11) Rabbit mAb



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Applications: WB, IP, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 34, 40	Source/Isotype: Rabbit IgG	UniProt ID: #P09651	Entrez-Gene Id: 3178	
Product Usage Information	App	plication		Dilution			
IIIIOIIIIauoii	We	stern Blotting		1:1000			
	Imr	nunoprecipitation		1:100			
	Imr	Immunofluorescence (Immunocytochemistry)			1:20	1:200 - 1:800	
	Flo	w Cytometry (Fixed	/Permeabilized)	1:100 - 1:400			
Storage	• •	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.					
Specificity / Sensitivity hnRNP A1 (D21H11) Rabbit mAb recognizes endogenous levels of total hnRNP A1 protein. This does not cross react with other hnRNP family member proteins.						otein. This antibody	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly209 of human hnRNP A1 protein.						
Background	RNA nucl and is el Althe whe actir	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 Refer	2. Ri 3. G 4. Bi 5. Pi 6. Pi 7. Si 8. Bl 9. Hi	 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)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

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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Limited Uses

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