hnRNP Q/R (D18B2) Rabbit mAb





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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 65-82	Source/Isotype: Rabbit IgG	UniProt ID: #O43390, #O60506	Entrez-Gene Id: 10236, 10492		
Product Usage Information Storage		Application Western Blotting Immunoprecipitation Supplied in 10 mM soc	lium HEPES (pH 7.5), 150 mM NaCl, 100 μ	Dilution 1:1000 1:50 g/ml BSA, 50% glycerol	and less than		
-		0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	•	hnRNP Q/R (D18B2) Rabbit mAb recognizes endogenous levels of total hnRNP Q and hnRNP R proteins.						
Source / Purification Monoclonal antibodies are produced by immunizing animals with a syr residues surrounding Lys371 of human hnRNP Q protein.				th a synthetic peptide of	corresponding to			
Background Background Re	eferences	 Heterogeneous nuclear ribonucleoprotein Q and R belong to a family of hnRNP proteins that are involved in RNA binding, RNA biosynthesis, and mRNA transport from the nucleus to the cytoplasm (1-3). These two proteins are encoded by different genes but have 83% homology. hnRNP Q has three alternative splice variants (hnRNP Q1-3) (1-3). Methylation of carboxy-terminal arginine residues is required for nuclear localization (4). hnRNP Q binds to AU-rich mRNA in conjunction with AUF1 and regulates mRNA decay (5). hnRNP Q isoforms play a crucial role in mediating nuclear function of survival of motor neuron (SMN) complex (6,7) and modulating RNA biosynthesis and hepatitis C virus replication (8). hnRNP R was identified recently and its function is still under investigation (9), however hnRNP R does not duplicate the biological function of hnRNP Q. Both hnRNP Q and R are present in cytoplasmic mRNP granules containing untranslated mRNAs (10) and both interact with SMN (6). 1. Dreyfuss, G. et al. (1993) <i>Annu Rev Biochem</i> 62, 289-321. 2. Burd, C.G. and Dreyfuss, G. (1994) <i>Science</i> 265, 615-21. 3. Krecic, A.M. and Swanson, M.S. (1999) <i>Curr Opin Cell Biol</i> 11, 363-71. 						
		 Passos, D.O. et al. (2006) <i>Biochem Biophys Res Commun</i> 346, 517-25. Moraes, K.C. et al. (2003) <i>Biol Chem</i> 384, 25-37. Mourelatos, Z. et al. (2001) <i>EMBO J</i> 20, 5443-52. Rossoll, W. et al. (2002) <i>Hum Mol Genet</i> 11, 93-105. Liu, H.M. et al. (2009) <i>Virology</i> 386, 249-56. Hassfeld, W. et al. (1998) <i>Nucleic Acids Res</i> 26, 439-45. Carty, S.M. and Greenleaf, A.L. (2002) <i>Mol Cell Proteomics</i> 1, 598-610. 						
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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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