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#3388

RRM1 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M Mk	Endogenous	90	Rabbit	#P23921	6240
Product Usage Information	Application		Dilution			
	Western Blotting		1:1000			
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.					
Specificity/Sensitivity	RRM1 Antibody detects endogenous levels of total RRM1 protein.					
Species predicted to react based on 100% sequence homology	Rat, Chicken, Xenopus, Bovine, Dog					
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human RRM1.					
Background	Ribonucleotide reductase catalyzes the rate-limiting step in the synthesis of deoxynucleotide triphosphates (dNTPs). The regulatory M1 subunit (RRM1) is present throughout the cell division cycle, but downregulated in quiescent cells (1). Research studies have demonstrated that RRM1 is involved in carcinogenesis and tumor progression, and its expression is correlated with resistance to chemotherapy in non-small cell lung cancer (2-4).					
Background References	<ol style="list-style-type: none"> 1. Mann, G.J. et al. (1988) <i>Cancer Res</i> 48, 5151-6. 2. Zheng, Z. et al. (2007) <i>N Engl J Med</i> 356, 800-8. 3. Ceppi, P. et al. (2006) <i>Ann Oncol</i> 17, 1818-25. 4. Bepler, G. et al. (2006) <i>J Clin Oncol</i> 24, 4731-7. 					

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
Cross-Reactivity Key	H: Human M: Mouse Mk: Monkey
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