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Fibrillarin (R122) Antibody (IF Specific)

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

Applications: IF-IC	Reactivity: Mk	Sensitivity: Endogenous	MW (kDa): 37	Source/Isotype: Rabbit	UniProt ID: #P22087	Entrez-Gene Id: 2091
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Product Usage Information	Application	Dilution
Storage	Immunofluorescence (Immunocytochemistry)	1:25
Specificity/Sensitivity	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.	
Species predicted to react based on 100% sequence homology	Fibrillarin (R122) Antibody (IF Specific) detects endogenous levels of total fibrillarin protein by immunofluorescence (immunocytochemistry).	
Source / Purification	Human, Mouse, Rat	
Background	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg122 of human fibrillarin. Antibodies are purified by protein A and peptide affinity chromatography.	
Background References	Fibrillarin is a 2'-O-methyltransferase located in fibrillar regions and Cajal bodies of the nucleolus, where RNA transcription and pre-RNA processing take place (1,2). Fibrillarin associates with several other structural proteins as well as box C/D snoRNA to form a complex that functions in pre-rRNA processing, pre-rRNA methylation, and ribosome assembly. This complex catalyzes site-specific 2'-O-ribose methylation of targeted nucleotides within the rRNA sequence (3,4). The sequence, structure, and function of fibrillarin are highly conserved and fibrillarin gene expression is essential for early embryonic development (5).	
	<ol style="list-style-type: none"> 1. Tollervey, D. et al. (1993) <i>Cell</i> 72, 443-57. 2. Wang, H. et al. (2000) <i>EMBO J</i> 19, 317-23. 3. Lafontaine, D.L. and Tollervey, D. (2000) <i>Mol Cell Biol</i> 20, 2650-9. 4. Galardi, S. et al. (2002) <i>Mol Cell Biol</i> 22, 6663-8. 5. Newton, K. et al. (2003) <i>Mol Cell Biol</i> 23, 8519-27. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry)
Cross-Reactivity Key	Mk: Monkey
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