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Fibrillarin (C13C3) Rabbit mAb (Alexa Fluor® 488 Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-IC	H M R Mk	Endogenous	Rabbit IgG	#P22087	2091
Product Usage Information	Application Immunofluorescence (Immunocytochemistry)			Dilution 1:50	
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity/Sensitivity	Fibrillarin (C13C3) Rabbit mAb (Alexa Fluor® 488 Conjugate) detects endogenous levels of total fibrillarin protein.				
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Thr298 of human fibrillarin protein.				
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct immunofluorescence analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Fibrillarin (C13C3) Rabbit mAb #2639.				
Background	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).				
Background References	<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

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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