

#2639 Store at -20°C

Fibrillarin (C13C3) Rabbit mAb


Cell Signaling
TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IF-F, IF-IC	H M R Mk	Endogenous	37	Rabbit IgG	#P22087	2091

Product Usage Information

Application

Western Blotting
Immunofluorescence (Frozen)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:400

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

Fibrillarin (C13C3) Rabbit mAb 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.

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

1. Tollervey, D. et al. (1993) *Cell* 72, 443-57.
2. Wang, H. et al. (2000) *EMBO J* 19, 317-23.
3. Lafontaine, D.L. and Tollervey, D. (2000) *Mol Cell Biol* 20, 2650-9.
4. Galardi, S. et al. (2002) *Mol Cell Biol* 22, 6663-8.
5. Newton, K. et al. (2003) *Mol Cell Biol* 23, 8519-27.

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 **IF-F:** Immunofluorescence (Frozen)
IF-IC: Immunofluorescence (Immunocytochemistry)

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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