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#2639

Fibrillarin (C13C3) Rabbit mAb

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

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

For a carrier free (BSA and azide free) version of this product see product #20591.

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

W: Western Blotting **IF-F:** Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

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

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