

Mouse Fibrillarin/Nop1p nucleolar marker Antibody

Fibrillarin/Nop1p nucleolar marker, Monoclonal Antibody, Mouse

CATALOG # AAA76434	HOST Mouse	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunofluorescence, Western Blot
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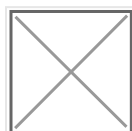
PRODUCT SYNONYMS

Fibrillarin/Nop1p nucleolar marker; Monoclonal Antibody; Mouse; anti-Fibrillarin/Nop1p nucleolar marker antibody

PRODUCT SPECIFICATIONS

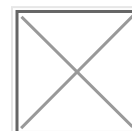
Host	Mouse
Reactivity	Human, Mouse, Rat
Isotype	IgG ₁
Purity/Purification	Protein G purified
Form/Format	Sterile-filtered cell culture fluid from an Integra CL-350 bio-chamber with 10 mM sodium azide as a preservative.
Applicable Applications for anti-Fibrillarin/Nop1p nucleolar marker antibody	IF (Immunofluorescence), WB (Western Blot)
Immunogen	Mice were injected with yeast nuclear preparations and hybridomas were screened by immunofluorescence on yeast cells and by western blotting on yeast protein homogenates.
Preparation and Storage	Antibody can be aliquotted and stored frozen at -20°C to -70°C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2°-8°C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Image: Strip blots of yeast protein extracts stained with the indicated Fibrillarin/Nop1p and related markers.



IF (Immunofluorescence)

Image: Human SH-SY5Y cells stained with Fibrillarin/Nop1p showing prominent specular nucleolar staining. The nuclei are counter stained with blue DAPI DNA stain, so these spots appear very pale blue. Cells are also stained with Neurofilament NF-H.

ADDITIONAL INFORMATION

Related Product Information for anti-Fibrillarin/Nop1p nucleolar marker antibody	The Nop1p protein is 327 amino acids in size (34.5kDa), is essential for yeast viability, and is localized in the nucleoli (1). The systematic name for S. cerevisiaeNop1 is YDL014W, and it is now known to be part of the small subunit processome complex, involved in the processing of pre-18S ribosomal RNA. Nop1p is the yeast homologue of a protein apparently found in all eukaryotes and archea generally called fibrillarin. Fibrillarin/Nop1p is extraordinarily conserved, so that the yeast and human proteins are 67% identical, and the human protein can functionally replace the yeast protein.This protein lacks the RGG richN-terminal extension but is clearly homologues to the other sequences throughout all of the fibrillarin domain. The 3D structure of this molecule has been determined and shown to consist of 2 extended b-sheets flanked by 4 a-helices (Medline link). Patients with the autoimmune disease scleroderma often have strong circulating autoantibodies to a ~34kDa protein which was subsequently found to be fibrillarin. Recent studies show that knock out of the fibrillarin gene in mice results in embryonic lethality, although mice with only one functional fibrillarin/Nop1p gene were viable (3). This antibody is becoming widely used as a convenient markerfor nucleoli in a wide variety of species (e.g. 4-6).
Product Categories/Family for anti-Fibrillarin/Nop1p nucleolar marker antibody	Promos/New Solutions; Promotions; Fibrillarin/Nop1p- Nucleolar Marker

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-human-mouse-rat-antibody/fibrillarin-nop1p-nucleolar-marker/76434>