

Datasheet for ABIN361375
anti-Fibrillarin antibody[Go to Product page](#)

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Overview

Quantity:	100 µL
Target:	Fibrillarin (FBL)
Reactivity:	Saccharomyces cerevisiae
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Fibrillarin antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Yeast nuclear preparations
Clone:	38F3
Isotype:	IgG1
Specificity:	Specific for the ~34kDa Fibrillarin /Nop1p protein. It is expected that it will work on other mammal tissues.
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	Protein G purified culture supernatant

Target Details

Target:	Fibrillarin (FBL)
Alternative Name:	Fibrillarin (Nop1p) (FBL Products)

Target Details

Background: Nop1p was originally identified as a nucleolar protein of bakers yeast, *Saccharomyces cerevisiae*. 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. cerevisiae* Nop1 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 found in all eukaryotes and archaea generally called fibrillarin (2). 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. 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 marker for nucleoli in a wide variety of species (e.g. 4-6).

Molecular Weight: 34 kDa

Gene ID: 851548

UniProt: [P15646](#)

Pathways: [Ribonucleoside Biosynthetic Process](#)

Application Details

Application Notes: Recommended Dilution: WB: 1:1,000 IF: 1:500 Quality Control: Western blots performed on each lot.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: total IgG fraction + 10 mM Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

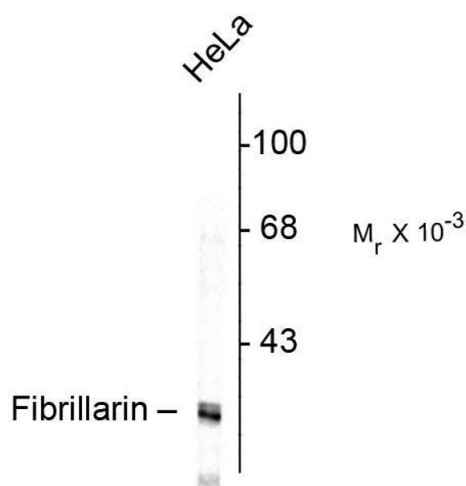
Storage: -20 °C

Publications

Product cited in: Vendramin, Verheyden, Ishikawa, Goedert, Nicolas, Saraf, Armaos, Delli Ponti, Izumikawa, Mestdagh, Lafontaine, Tartaglia, Takahashi, Marine, Leucci: "SAMMSON fosters cancer cell fitness by concertedly enhancing mitochondrial and cytosolic translation." in: **Nature structural & molecular biology**, Vol. 25, Issue 11, pp. 1035-1046, (2019) ([PubMed](#)).

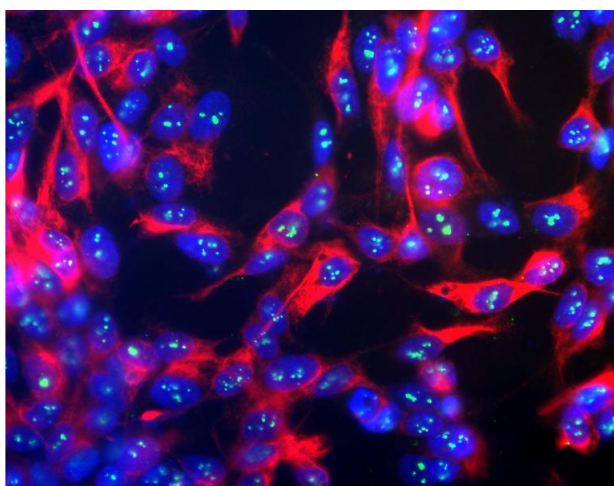
Langhendries, Nicolas, Doumont, Goldman, Lafontaine: "The human box C/D snoRNAs U3 and U8 are required for pre-rRNA processing and tumorigenesis." in: **Oncotarget**, Vol. 7, Issue 37, pp. 59519-59534, (2018) ([PubMed](#)).

Images



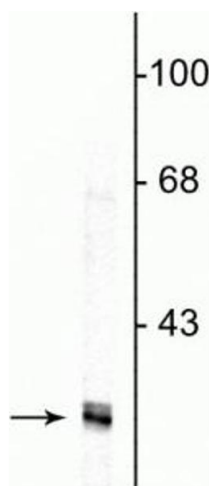
Western Blotting

Image 1. Western blot of HeLa lysate showing specific immunolabeling of the ~ 34k fibrillarin protein.



Immunocytochemistry

Image 2. Human SH-SY5Y cells stained with mouse-anti-fibrillarin, showing prominent specular nucleolar staining. The nuclei are counter stained with blue DAPI DNA stain, so these spots appear very pale blue.



Western Blotting

Image 3. Western blot of HeLa cell lysate showing specific immunolabeling of the ~34 kDa fibrillarin protein.