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Datasheet for 900-301-D39

Fibrillarin Antibody

Overview

Description:	Anti-Fibrillarin (MOUSE) Antibody - 900-301-D39
Item No.:	900-301-D39
Size:	100 µL
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Fibrillarin Antibody detects Nop1p which 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. 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 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. 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. Anti-Fibrillarin Antibody is ideal for investigators involved in Cell Proliferation and Cancer Research.
Synonyms:	mouse anti-Fibrillarin Antibody, rRNA 2'-O-methyltransferase fibrillarin, U3 small nucleolar RNA-associated protein NOP1, Nucleolar protein 1, U3 snoRNA-associated protein NOP1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	38F3
Format:	IgG

Target Details

Gene Name:	NOP1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Native Protein
Immunogen:	Anti-Fibrillarin Monoclonal Antibody was produced in mouse by repeated immunizations with native yeast nuclear protein preparations.
Purity/Specificity:	Anti-Fibrillarin Antibody is directed against yeast Fibrillarin/Nop1p protein. Fibrillarin antibodies are protein G purified from concentrated clarified cell culture supernate. Reactivity is expected against human, mouse, and rat. Cross-reactivity toward other sources has not be determined. Anti-Fibrillarin antibody is becoming widely used as a convenient marker for nucleoli in a wide variety of species.
Relevant Links:	• UniProtKB - P15646 • GeneID - 851548 • NCBI - AAA34816.1

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Fibrillarin (Mouse) Antibody is tested for use in Western Blotting, ICC and IHC. Specific conditions for reactivity should be optimized by the end user. Expect a band size of approximately 34 kDa in size corresponding to the Fibrillarin/Nop1p proteins.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1:500
WB:	1:1000

Formulation

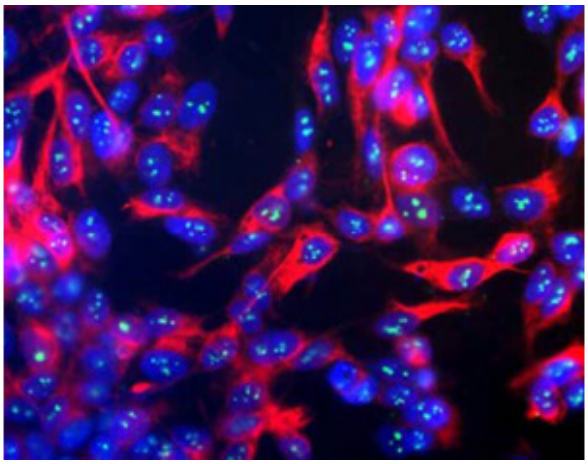
Physical State:	Liquid
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

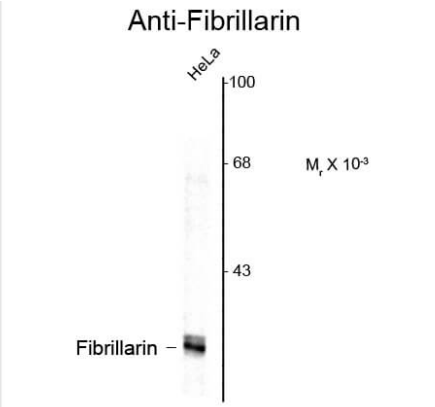
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of Anti-Fibrillarin (Mouse) Antibody. Tissue: Human SH-SY5Y cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Fibrillarin antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: Fibrillarin is nuclear. Staining: Fibrillarin showing prominent specular nucleolar staining. The nuclei are counter stained with blue DAPI DNA stain, so these spots appear very pale blue.



Western blot of HeLa lysate showing specific immunolabeling of the ~34k Fibrillarin protein.

Western Blot
Western Blot of Anti-Fibrillarin (Mouse) Antibody. Lane 1: HeLa lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: Fibrillarin antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~ 34kDa/~34kDa for fibrillarin protein. Other band(s): none.

Disclaimer

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