ARG52280
anti-Fibrillarin antibody [38F3]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [38F3] recognizes Fibrillarin
Tested Reactivity	Hu, Ms, Ce, Dm, Plnt, S. pombe
Tested Application	ICC/IF, IHC-Fr, WB
Host	Mouse
Clonality	Monoclonal
Clone	38F3
Isotype	IgG1
Target Name	Fibrillarin
Species	Yeast
Immunogen	Yeast nuclear preparations
Epitope	EYRAWNPFRSKLAAAILGGV
Conjugation	Un-conjugated
Alternate Names	rRNA 2'-O-methyltransferase fibrillarin; RNU3IP1; 34 kDa nucleolar scleroderma antigen; FIB; FLRN; EC 2.1.1.-; Histone-glutamine methyltransferase

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100
IHC-Fr	1:100
WB	1:500 - 1:1000

Application Note: Specific for the ~34kDa Fibrillarin /Nop1p protein.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

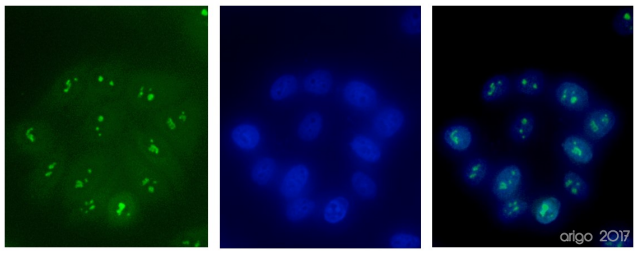
Form	Liquid
Purification	Total IgG fraction
Buffer	Total IgG fraction and 10 mM Sodium azide
Preservative	10 mM Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 14113 Mouse GeneID: 2091 Human Swiss-port # P22087 Human Swiss-port # P35550 Mouse
Gene Symbol	NOP1
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 . 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 . This antibody is becoming widely used as a convenient marker for nucleoli in a wide variety of species (e.g. 4-6).
Highlight	Related Antibody Duos and Panels: ARG30303 Nucleolar Marker Antibody Duo Related products: Fibrillarin antibodies; Fibrillarin Duos / Panels; Anti-Mouse IgG secondary antibodies; Related poster download: Organelle Markers & Loading Control
Research Area	Gene Regulation antibody; Nucleolar Marker antibody; DFC Marker antibody; Dense fibrillar component Marker antibody
Calculated Mw	34 kDa
PTM	By homology to other fibrillarins, some or all of the N-terminal domain arginines are modified to asymmetric dimethylarginine (DMA).

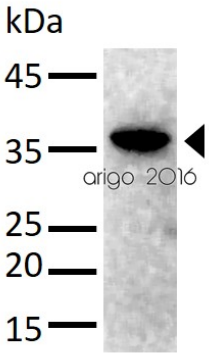
Images



ARG52280 anti-Fibrillarin antibody [38F3] ICC/IF image

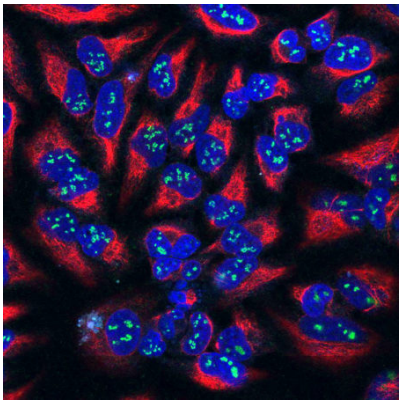
Immunofluorescence: 100% Methanol fixed (RT, 10 min) HeLa cells stained with ARG52280 anti-Fibrillarin antibody [38F3] at 1:500 dilution. Left: primary antibody (green). Middle: DAPI (blue). Right: Merge.

Secondary antibody: ARG55393 Goat anti-Mouse IgG (H+L) antibody (FITC)



ARG52280 anti-Fibrillarin antibody [38F3] WB image

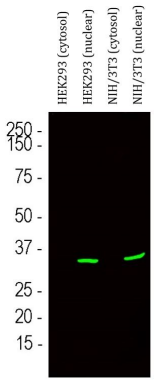
Western blot: 30 µg of HeLa cell lysate stained with ARG52280 anti-Fibrillarin antibody [38F3] at 1:1000 dilution.



ARG52280 anti-Fibrillarin antibody [38F3] ICC/IF image

Immunofluorescence: HeLa cells stained with ARG52280 anti-Fibrillarin antibody [38F3] (green) at 1:100 dilution, and costained with ARG52468 anti-Vimentin antibody (red) at 1:1000 dilution. DAPI (blue) for nuclear staining.

The Fibrillarin antibody shows strong staining of nucleoli in the nucleus, while the Vimentin antibody reveals cytoplasmic intermediate filaments.



ARG52280 anti-Fibrillarin antibody [38F3] WB image

Western blot: HEK293 cytosol, HEK293 nuclear, NIH/3T3 cytosol and NIH/3T3 nuclear fractions stained with ARG52280 anti-Fibrillarin antibody [38F3] (green) at 1:500 dilution.