

Anti-Fibrillarin Antibody

Our Anti-Fibrillarin primary antibody from PhosphoSolutions is mouse monoclonal. It detects human, m
Catalog # AN1384

Specification

Anti-Fibrillarin Antibody - Product Information

Application	WB, IHC
Primary Accession	P15646
Reactivity	Bovine, Chicken, Drosophila, C.Elegans, Epstein Barr Virus, Neisseria Gonorrhoeae
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	34465

Anti-Fibrillarin Antibody - Additional Information

Gene ID **851548**

Other Names

34 kD nucleolar scleroderma antigen antibody, 34 kDa nucleolar scleroderma antigen antibody, Fbl antibody, FBRL_HUMAN antibody, FIB antibody, FIB1 antibody, FLRN antibody, Histone-glutamine methyltransferase antibody, Nop1p antibody, RNA U3 small nucleolar interacting protein 1 antibody, RNU3IP1 antibody, rRNA 2' O methyltransferase fibrillarin antibody, rRNA 2'-O-methyltransferase fibrillarin antibody

Target/Specificity

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 ~34 kDa 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).

Dilution

WB~~1:1000
IHC~~1:100~500

Format

Protein G Purified

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-Fibrillarin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

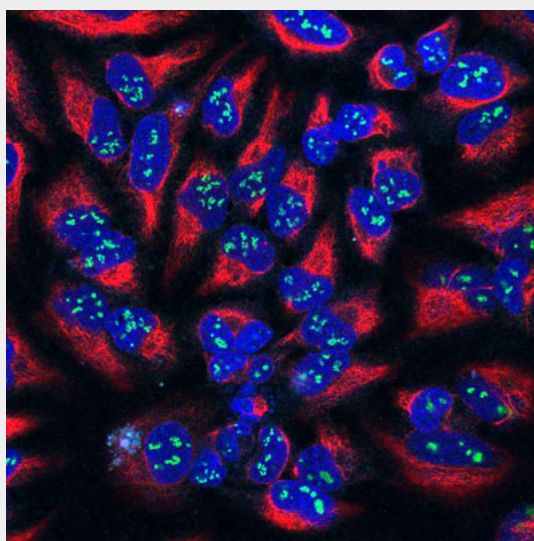
Shipping

Blue Ice

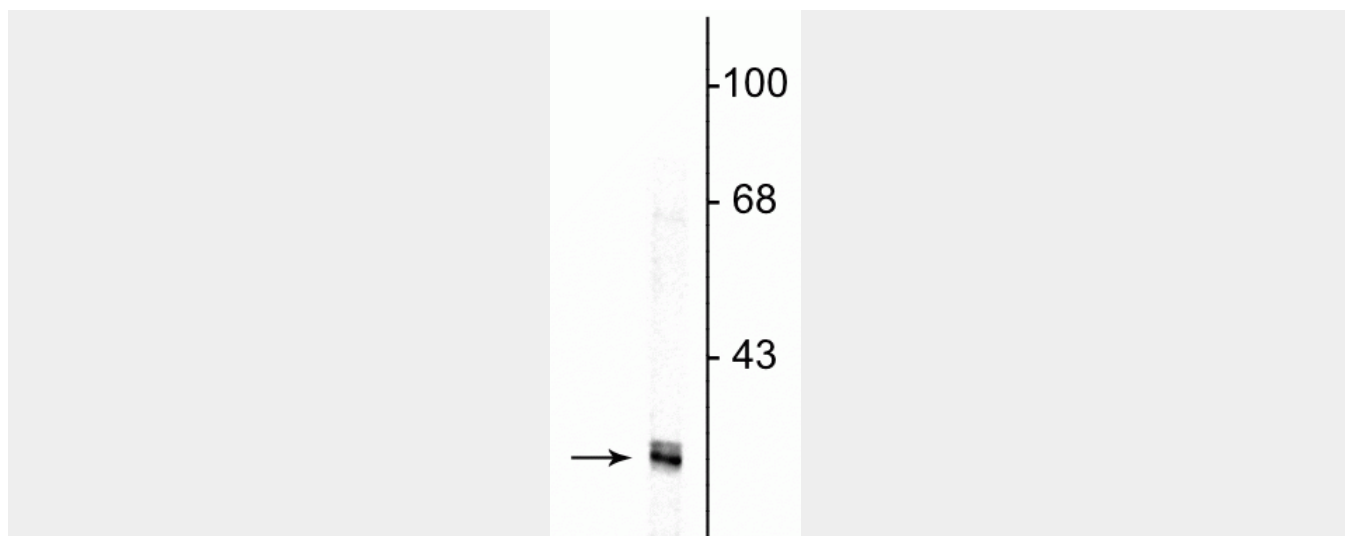
Anti-Fibrillarin Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

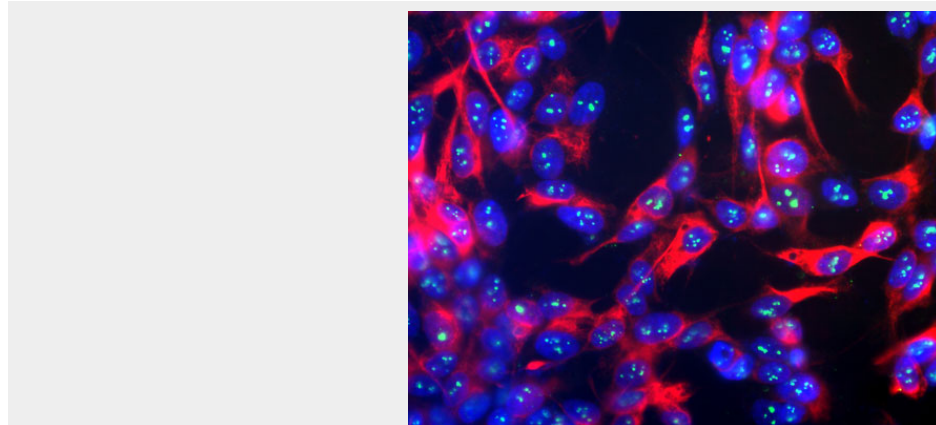
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Fibrillarin Antibody - Images

High magnification confocal image of HeLa cells showing strong, prominent labeling of the nucleoli in the nucleus with Anti-Fibrillarin (cat. 560-FIB, 1:100, green), colabeled with Anti-Vimentin (cat. 2105-VIM, red, 1:1000) showing the cytoplasmic intermediate filaments, and nuclear staining was done with DAPI (blue).



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



Immunofluorescence of human neuroblastoma SH-SY5Y cells showing strong, prominent labeling of the nucleoli in the nucleus with Anti-Fibrillarin (cat. 560-FIB, 1:500, green), and nuclear staining was done with DAPI (blue) which makes the fibrillarin marker appear pale blue.

Anti-Fibrillarin Antibody - Background

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