

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

/B, IHC
<u>15646</u>
ovine, Chicken, Drosophila, C.Elegans,
pstein Barr Virus, Neisseria Gonorrhoeae
louse
lonoclonal
JG1
4465

Anti-Fibrillarin Antibody - Additional Information

Gene ID Other Names 851548

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 Cytomety
- <u>Cell Culture</u>

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 intermediated filaments, and nuclear staining was done with DAPI (blue).





Western blot of HeLa cell lysate showing specific immunolabeling of the \sim 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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