abcam

Product datasheet

Anti-Fibrillarin antibody ab226178

2 Images

Overview

Product name	Anti-Fibrillarin antibody
Description	Rabbit polyclonal to Fibrillarin
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rabbit, Horse, Cow, Dog, Pig, Chimpanzee, Cynomolgus monkey, Rhesus monkey, Gorilla, African green monkey, Orangutan, Giant Panda
Immunogen	Synthetic peptide within Human Fibrillarin aa 271-321. The exact sequence is proprietary. (NP_001427.2). Database link: **P22087**
Positive control	WB: HeLa, HEK-293T, Jurkat and NIH/3T3 whole cell lysates. IP: HeLa whole cell lysate.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituent: Tris citrate/phosphate pH 7 to 8
Purity	Immunogen affinity purified
Purification notes	ab226178 was affinity purified using an epitope specific to Fibrillarin immobilized on solid

	support.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab226178 in the following tested applications.

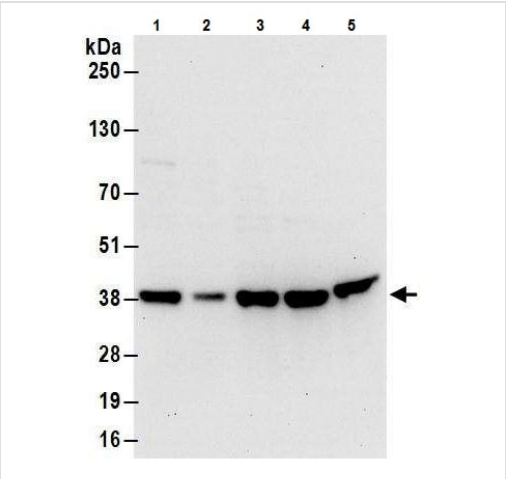
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/5000. Predicted molecular weight: 34 kDa.
IP		Use at 2-10 µg/mg of lysate.

Target

Function	S-adenosyl-L-methionine-dependent methyltransferase that has the ability to methylate both RNAs and proteins. Involved in pre-rRNA processing by catalyzing the site-specific 2'-hydroxyl methylation of ribose moieties in pre-ribosomal RNA. Site specificity is provided by a guide RNA that base pairs with the substrate. Methylation occurs at a characteristic distance from the sequence involved in base pairing with the guide RNA. Also acts as a protein methyltransferase by mediating methylation of 'Gln-105' of histone H2A (H2AQ104me), a modification that impairs binding of the FACT complex and is specifically present at 35S ribosomal DNA locus (PubMed:24352239).
Sequence similarities	Belongs to the methyltransferase superfamily. Fibrillarin family.
Post-translational modifications	By homology to other fibrillarins, some or all of the N-terminal domain arginines are modified to asymmetric dimethylarginine (DMA).
Cellular localization	Nucleus, nucleolus. Fibrillar region of the nucleolus.

Images



Western blot - Anti-Fibrillarin antibody (ab226178)

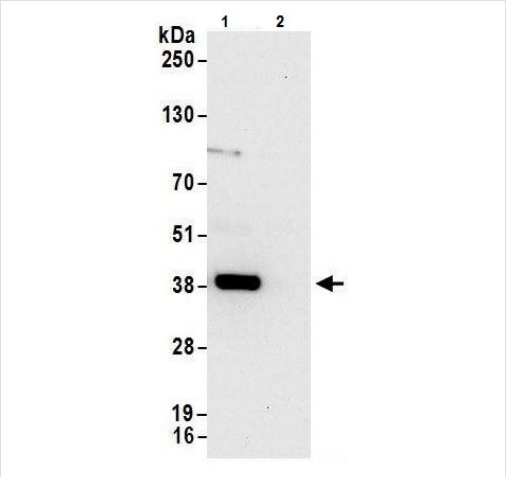
All lanes : Anti-Fibrillarin antibody (ab226178) at 0.4 µg/ml

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 50 µg
Lane 2 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 15 µg
Lane 3 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate at 50 µg
Lane 4 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate at 50 µg
Lane 5 : NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate at 50 µg

Developed using the ECL technique.

Predicted band size: 34 kDa

Exposure time: 10 seconds



Immunoprecipitation - Anti-Fibrillarin antibody (ab226178)

Fibrillarin was immunoprecipitated from HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate (1 mg for IP, 20% of IP loaded) with ab226178 at 6 µg/mg lysate. Western blot was performed from the immunoprecipitate using ab226178 at 1 µg/ml.

Lane 1: ab226178 IP in HeLa whole cell lysate.

Lane 2: Control IgG IP in HeLa whole cell lysate.

Detection: Chemiluminescence with exposure time of 10 seconds.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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