abcam

Product datasheet

Anti-SNF2H antibody [3.25(2)] ab33747

1 References 3 Images

Overview

Product name	Anti-SNF2H antibody [3.25(2)]
Description	Mouse monoclonal [3.25(2)] to SNF2H
Host species	Mouse
Tested applications	**Suitable for:** WB, Flow Cyt (Intra), ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Fusion protein. This information is proprietary to Abcam and/or its suppliers.
Positive control	This antibody gave a positive signal in the following Human whole cell lysates: HeLa, Jurkat, HepG2, MCF7 This antibody gave a negative signal in the following Mouse whole cell lysate: NIH3T3
General notes	We can conjugate this antibody to FITC for you (please see **ab150233** for details). This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal

Clone number	3.25(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab33747 in the following tested applications.

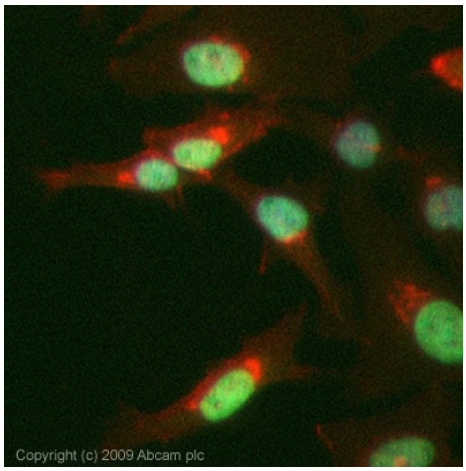
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 10 µg/ml. Detects a band of approximately 122 kDa (predicted molecular weight: 122 kDa).
Flow Cyt (Intra)		Use 1µl for 10^6 cells.
ICC/IF		Use a concentration of 5 µg/ml.

Target

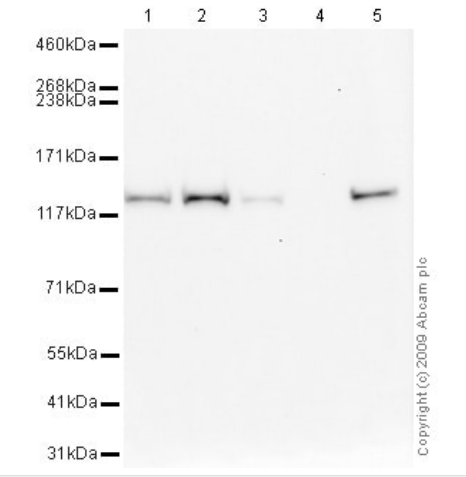
Function	Helicase that possesses intrinsic ATP-dependent nucleosome-remodeling activity. Complexes containing SMARCA5 are capable of forming ordered nucleosome arrays on chromatin; this may require intact histone H4 tails. Also required for replication of pericentric heterochromatin in S-phase specifically in conjunction with BAZ1A. Probably plays a role in repression of polI dependent transcription of the rDNA locus, through the recruitment of the SIN3/HDAC1 corepressor complex to the rDNA promoter. Essential component of the WICH complex, a chromatin remodeling complex that mobilizes nucleosomes and reconfigures irregular chromatin to a regular nucleosomal array structure. The WICH complex regulates the transcription of various genes, has a role in RNA polymerase I and RNA polymerase III transcription, mediates the histone H2AX phosphorylation at 'Tyr-142', and is involved in the maintenance of chromatin structures during DNA replication processes. Essential component of the NoRC (nucleolar remodeling complex) complex, a complex that mediates silencing of a fraction of rDNA by recruiting histone-modifying enzymes and DNA methyltransferases, leading to heterochromatin formation and transcriptional silencing.
Tissue specificity	Ubiquitously expressed.
Sequence similarities	Belongs to the SNF2/RAD54 helicase family. ISWI subfamily. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain. Contains 2 SANT domains.
Developmental stage	Overexpressed in CD34-positive erythrocyte progenitor cells in acute myeloid leukemia. Down-regulation correlates with hematologic remission following chemotherapy.
Cellular localization	Nucleus.

Images



Immunocytochemistry/ Immunofluorescence - Anti-SNF2H antibody [3.25(2)] (ab33747)

ICC/IF image of ab33747 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal Goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab33747, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 Goat anti-Mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue). This antibody also gave a positive result in 4% PFA fixed (10min) HEK293 cells, HepG2 cells at 5ug/ml and in 100% Methanol fixed (5 min) HeLa cells, HEK293 cells, HepG2 cells, and MCF-7 cells at 5µg/ml.



Western blot - Anti-SNF2H antibody [3.25(2)] (ab33747)

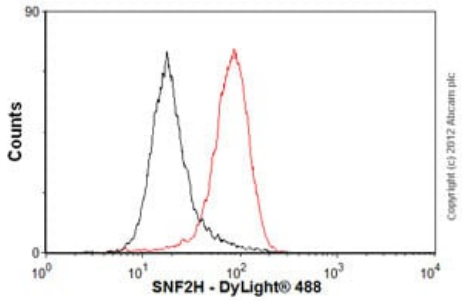
All lanes : Anti-SNF2H antibody [3.25(2)] (ab33747) at 10 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate
Lane 3 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate
Lane 4 : NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate
Lane 5 : MCF7 (Human breast adenocarcinoma cell line) Whole Cell Lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Predicted band size: 122 kDa
Observed band size: 122 kDa



Flow Cytometry (Intracellular) - Anti-SNF2H antibody [3.25(2)] (ab33747)

Overlay histogram showing HeLa cells stained with ab33747 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab33747, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

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