

Anti-SNF2H antibody - ChIP Grade ab3749

★★★★★ [9 Abreviews](#) [43 References](#) [2 Images](#)

Overview

Product name	Anti-SNF2H antibody - ChIP Grade
Description	Rabbit polyclonal to SNF2H - ChIP Grade
Host species	Rabbit
Specificity	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help. You may also be interested in our alternative recombinant antibody, ab183730 .
Tested applications	Suitable for: IP, ICC/IF, ChIP, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>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.</p> <p>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</p>

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	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p>

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

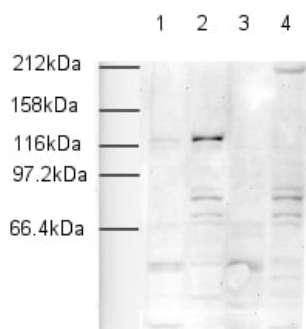
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab3749 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP	★★★★★ (1)	Use at an assay dependent concentration. PubMed: 16917504
ICC/IF	★★★★★ (3)	Use at an assay dependent concentration.
ChIP	★★★★★ (1)	Use 2.5µl for 10 ⁶ cells.
WB	★★★★★ (4)	1/500. Detects a band of approximately 120 kDa (predicted molecular weight: 122 kDa).

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 pol 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



Western blot - Anti-SNF2H antibody - ChIP Grade (ab3749)

Rabbit polyclonal ab3749 to SNF2H was used in all lanes at 1/500 dilution.

Lane 1: HeLa lysate (20ug)

Lane 2: Mouse 3T3 lysate (20ug)

Lane 3: HeLa lysate (20ug), blocking peptide (**ab5160**) 1.0ug

Lane 4: Mouse 3T3 lysate (20ug), blocking peptide (**ab5160**) 1.0ug

Secondary antibody: Goat polyclonal to Rabbit IgG (**ab6721**)

ab3749 was able to recognise SNF2H in HeLa and Mouse 3T3 lysates (band at ~120 kDa). Binding was blocked by the immunising peptide **ab5160**.

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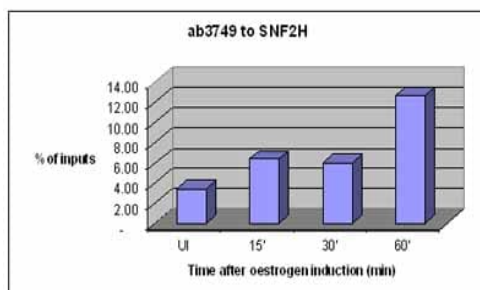
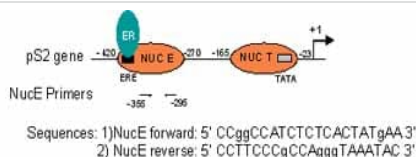
Lane 2: Mouse 3T3 lysate (20ug)

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ChIP - Anti-SNF2H antibody - ChIP Grade (ab3749)

ab3749 works in ChIP, as shown by the detection of an increase in the recruitment of SNF2H to the estrogen-responsive pS2 promoter.

Sonicated Chromatin prepared from untreated or 17beta-estradiol (E) treated MCF7 cells was subjected to the ChIP procedure with ab3749 antibody specific to SNF2H. The immunoprecipitated chromatin was analysed in the proximal region of the estrogen-responsive pS2 promoter.

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

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