abcam

Product datasheet

Anti-mSin3A antibody - ChIP Grade ab3479

10 Abreviews 44 References 7 Images

Overview

Product name	Anti-mSin3A antibody - ChIP Grade
Description	Rabbit polyclonal to mSin3A - ChIP Grade
Host species	Rabbit
Tested applications	**Suitable for:** ChIP, ICC/IF, WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide corresponding to Mouse mSin3A aa 1-100. Run BLAST with ExPASy Run BLAST with NCBI
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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab3479 in the following tested applications.

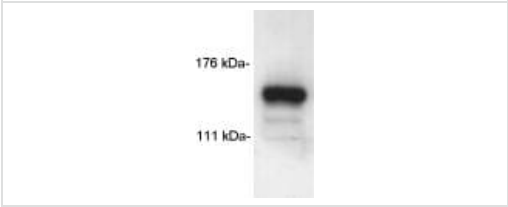
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ChIP	★★★★☆ (2)	Use at an assay dependent concentration.
ICC/IF	★★★★☆ (1)	1/50 - 1/500.
WB	★★★★☆ (5)	Use a concentration of 0.5 µg/ml. Detects a band of approximately 150 kDa (predicted molecular weight: 145 kDa).
IHC-P	★★★★☆ (1)	Use a concentration of 2 µg/ml.

Target

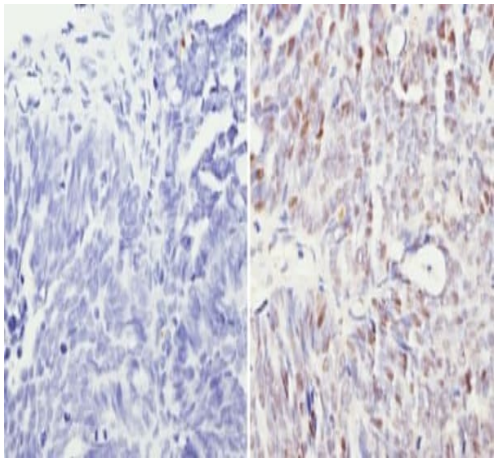
Function	Acts as a transcriptional repressor. Interacts with MXI1 to repress MYC responsive genes and antagonize MYC oncogenic activities. Also interacts with MAD-MAX heterodimers by binding to MAD. The heterodimer then represses transcription by tethering SIN3A to DNA. Acts as a corepressor for REST.
Sequence similarities	Contains 3 PAH (paired amphipathic helix) domains.
Post-translational modifications	SUMO1 sumoylated by TOPORS. Probably desumoylated by SENP2.
Cellular localization	Nucleus. Nucleus > nucleolus. Recruited to the nucleolus by SAP30L.

Images



Western blot - Anti-mSin3A antibody - ChIP Grade (ab3479)

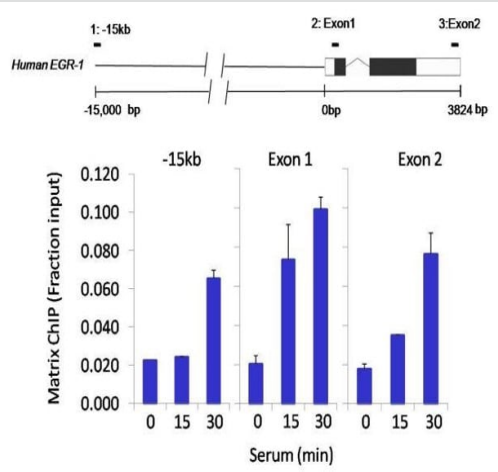
Western blot of mSin3A on K562 cell extract using ab3479.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-mSin3A antibody - ChIP Grade (ab3479)

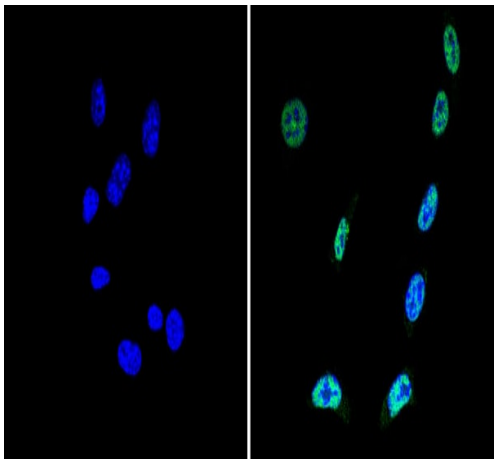
Paraffin-embedded human ovary carcinoma tissue (right panel) stained for mSin3A using ab3479 at 1/200 dilution compared to a negative control without primary antibody (left panel) in immunohistochemical analysis, followed by HRP-conjugated secondary antibody. Detection: DAB staining.

Antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min.



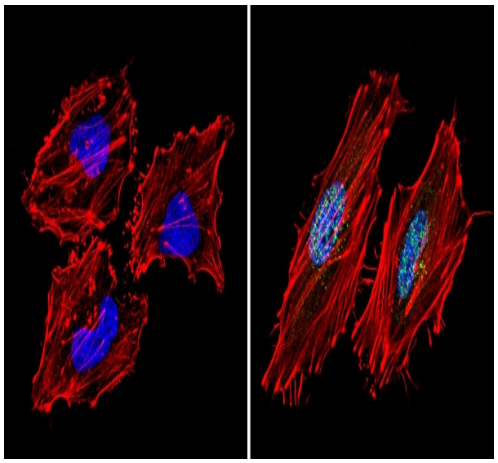
ChIP - Anti-mSin3A antibody - ChIP Grade (ab3479)

ChIP analysis of Sin3A was performed using cross-linked chromatin from $1x10^6$ HCT 116 (human colorectal carcinoma cell line) cells treated with serum for 0, 15, and 30 minutes. IP was performed using a multiplex microplate Matrix ChIP assay with 1.0 µl/100 µl well volume of ab3479. Chromatin aliquots from ~$1x10^5$ cells were used per ChIP pull-down. Quantitative PCR data were done in quadruplicate using 1 µl of eluted DNA in 2 µl SYBR real-time PCR reactions containing primers to amplify -15kb upstream of the Egr1 gene or exon-1 or exon-2 of Egr1. Quantitation of immunoprecipitated chromatin is presented as signal relative to the total amount of input chromatin. A schematic representation of the Egr-1 locus is shown above the data where boxes represent exons (black boxes = translated regions, white boxes = untranslated regions), the zigzag line represents an intron, and the straight line represents upstream sequence. Regions amplified by Egr-1 primers are represented by black bars.



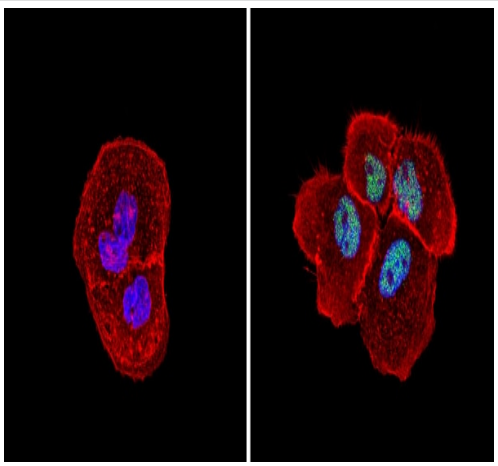
Immunocytochemistry/ Immunofluorescence - Anti-mSin3A antibody - ChIP Grade (ab3479)

Immunocytochemical immunoflurescence analysis of NIH-3T3 cells labelling mSin3A using ab3479. Formalin-fixed cells were permeablized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were then incubated with ab3479 in 3% BSA-PBS at a dilution of 1:100 overnight in a 4°C high humidity environment. Cells were then washed with PBST and incubated with a green DyLight-conjugated secondary antibody in PBS at room temperature in the dark. Cells were counterstained with DAPI or Hoechst labelling the nuclear DNA blue. The Left Image is a negative control without the prescence of ab3479. Image magnification is 60X.



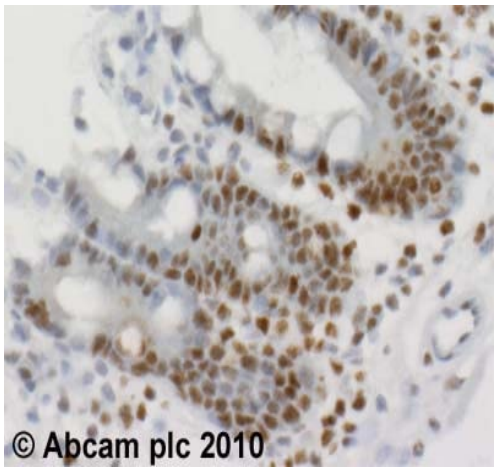
Immunocytochemistry/ Immunofluorescence - Anti-mSin3A antibody - ChIP Grade (ab3479)

Immunocytochemical immunoflurescence analysis of HeLa cells labelling mSin3A using ab3479. Formalin-fixed cells were permeablized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were then incubated with ab3479 in 3% BSA-PBS at a dilution of 1:200 overnight in a 4°C high humidity environment. Cells were then washed with PBST and incubated with a green DyLight-conjugated secondary antibody in PBS at room temperature in the dark. Cells were counterstained blue with DAPI or Hoechst labelling the nuclear DNA and red against actin using an Alexa Fluor® 554 conjugate. The Left Image is a negative control without the prescence of ab3479. Image magnification is 60X.



Immunocytochemistry/ Immunofluorescence - Anti-mSin3A antibody - ChIP Grade (ab3479)

Immunocytochemical immunoflurescence analysis of NIH-3T3 cells labelling mSin3A using ab3479. Formalin-fixed cells were permeablized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were then incubated with ab3479 in 3% BSA-PBS at a dilution of 1:100 overnight in a 4°C high humidity environment. Cells were then washed with PBST and incubated with a green DyLight-conjugated secondary antibody in PBS at room temperature in the dark. Cells were counterstained blue with DAPI or Hoechst labelling the nuclear DNA and red against actin using an Alexa Fluor® 554 conjugate. The Left Image is a negative control without the prescence of ab3479. Image magnification is 60X.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-mSin3A antibody - ChIP Grade (ab3479)

ab3479 (2µg/ml) staining mSin3A in human duodenum using an automated system (DAKO Autostainer Plus). Using this protocol there is strong staining of nuclei of epithelial cells.
Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffers citrate pH6.1/ EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H_2O_2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.

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