

Product datasheet

Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker ab176334

Recombinant RabMAb

[2 References](#) [11 Images](#)

Overview

Product name	Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker
Description	Rabbit monoclonal [EPR13107(B)] to ASH2L - Nuclear Marker
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, Flow Cyt, IHC-P, WB Unsuitable for: IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human ASH2L aa 600 to the C-terminus (C terminal) (Cysteine residue). The exact sequence is proprietary. Database link: Q9UBL3
Positive control	WB: HeLa, 293T, Jurkat and K562 cell lysates. IHC-P: Human colon, breast and testis tissues, mouse liver, and rat cerebrum tissues. ICC/IF: HeLa and 293T cells. Flow Cyt: HeLa cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here .

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and

species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as 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	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR13107(B)
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab176334** 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
ICC/IF		1/100 - 1/250.
Flow Cyt		1/1200.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. For unpurified use at 1/50-1/100 See IHC antigen retrieval protocols .
WB		1/10000 - 1/50000. Predicted molecular weight: 69 kDa.

Application notes Is unsuitable for IP.

Target

Function

Component of the Set1/Ash2 histone methyltransferase (HMT) complex, a complex that specifically methylates 'Lys-4' of histone H3, but not if the neighboring 'Lys-9' residue is already methylated. As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3. May function as a transcriptional regulator. May play a role in hematopoiesis.

Tissue specificity

Ubiquitously expressed. Predominantly expressed in adult heart and testis and fetal lung and liver, with barely detectable expression in adult lung, liver, kidney, prostate, and peripheral leukocytes.

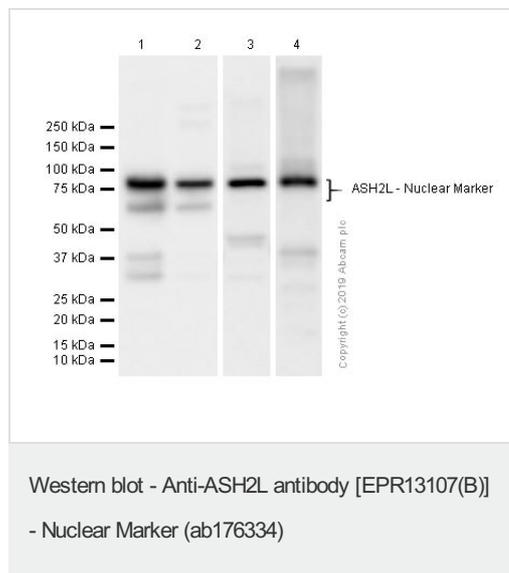
Sequence similarities

Contains 1 B30.2/SPRY domain.

Cellular localization

Nucleus.

Images



All lanes : Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker (ab176334) at 1/10000 dilution (Purified)

Lane 1 : 293T (Human embryonic kidney epithelial cell) whole cell lysates

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 3 : Mouse heart lysates

Lane 4 : Rat heart lysates

Lysates/proteins at 20 µg per lane.

Secondary

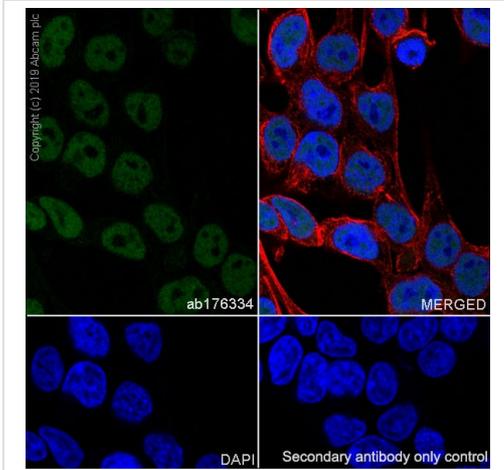
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 69 kDa

Observed band size: 65,80 kDa

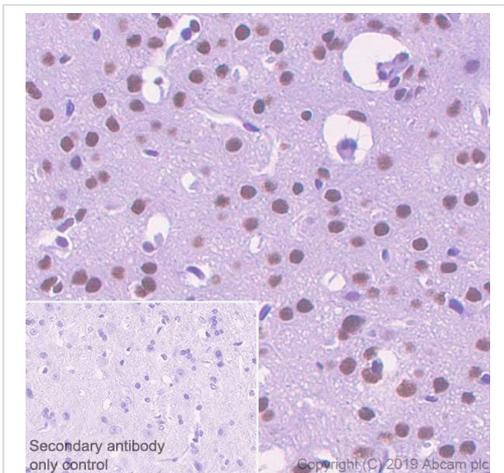
[why is the actual band size different from the predicted?](#)

ab176334 recognizes 3 isoforms of ASH2L



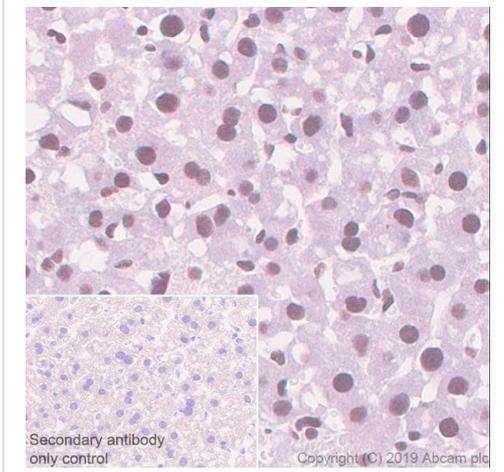
Immunocytochemistry/ Immunofluorescence - Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker (ab176334)

Immunocytochemistry/ Immunofluorescence analysis of 293T (Human embryonic kidney epithelial cell) cells labeling ASH2L with purified ab176334 at 1/50 dilution (7.78 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



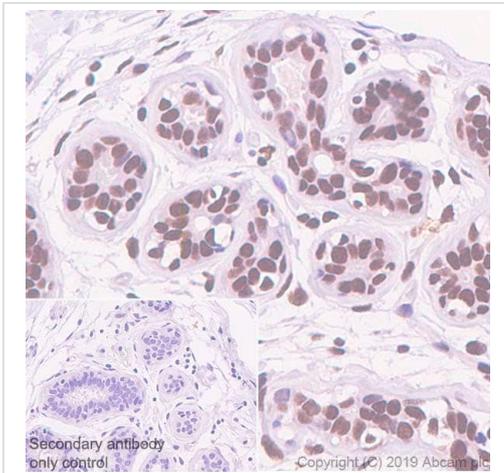
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker (ab176334)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat cerebrum tissue sections labeling ASH2L with purified ab176334 at 1/8000 dilution (0.05 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



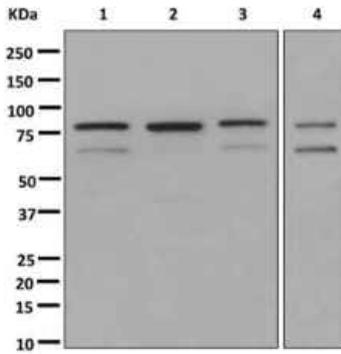
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse liver tissue sections labeling ASH2L with purified ab176334 at 1/8000 dilution (0.05 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker (ab176334)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast tissue sections labeling ASH2L with purified ab176334 at 1/8000 dilution (0.05 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker (ab176334)



Western blot - Anti-ASH2L antibody [EPR13107(B)]
- Nuclear Marker (ab176334)

All lanes : Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker (ab176334) at 1/10000 dilution ((unpurified))

Lane 1 : HeLa cell lysates

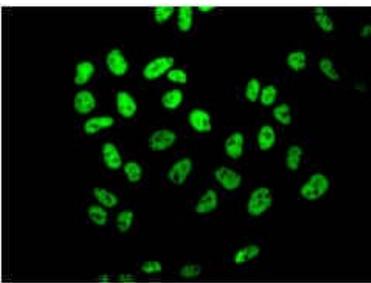
Lane 2 : 293T cell lysates

Lane 3 : Jurkat cell lysates

Lane 4 : K562 cell lysates

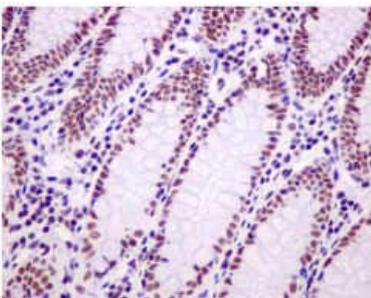
Lysates/proteins at 10 µg per lane.

Predicted band size: 69 kDa



Immunocytochemistry/ Immunofluorescence - Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker (ab176334)

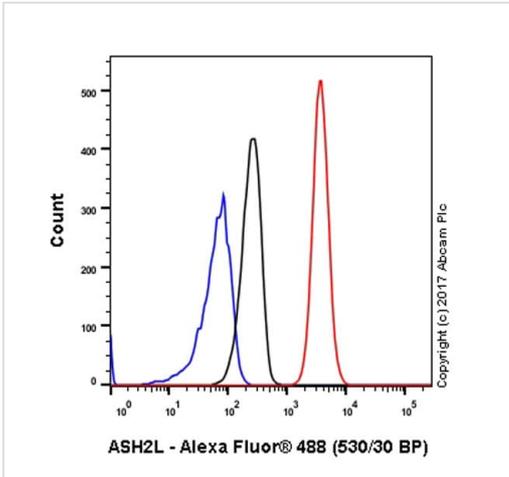
Immunofluorescent analysis of HeLa labeling ASH2L with ab176334 at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker (ab176334)

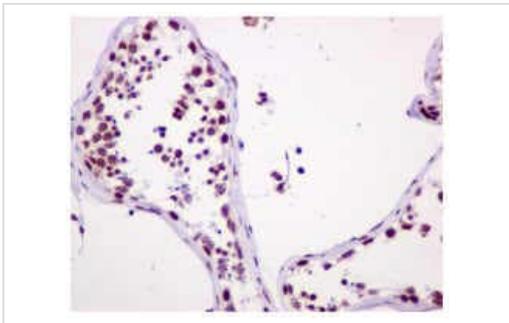
Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling ASH2L with unpurified ab176334 at 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry - Anti-ASH2L antibody
[EPR13107(B)] - Nuclear Marker (ab176334)

Flow cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling ASH2L (red) with unpurified ab176334 at a 1/1200 dilution. Cells were fixed with 80% methanol and permeabilized with 0.1% Tween-20. A goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (ab172730). Blue (unlabeled control) - Cells without incubation with the primary and secondary antibodies.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ASH2L antibody
[EPR13107(B)] - Nuclear Marker (ab176334)

Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling ASH2L with unpurified ab176334 at 1/50 dilution. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker (ab176334)

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

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