abcam

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:** Flow Cyt (Intra), ICC/IF, 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 (intra): HeLa cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - 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**.

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

The Abpromise guarantee 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
Flow Cyt (Intra)		1/1200.
ICC/IF		1/100 - 1/250.
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

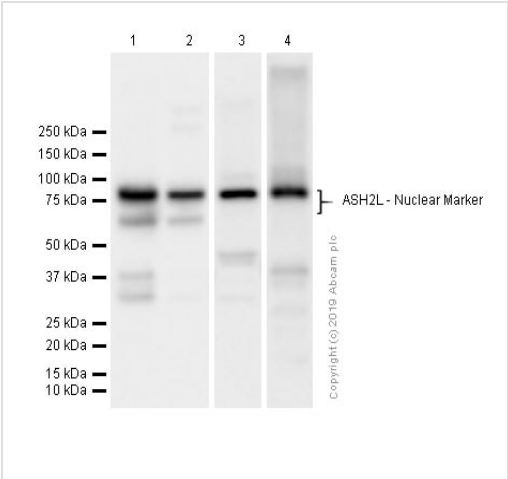
Function Component of the Set1/Ash2 histone methyltransferase (HMT) complex, a complex that specifically methylates 'Lys-4' of histone H3, but not if the neighboring 'Lys-9' residue is already methylated. As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone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



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

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

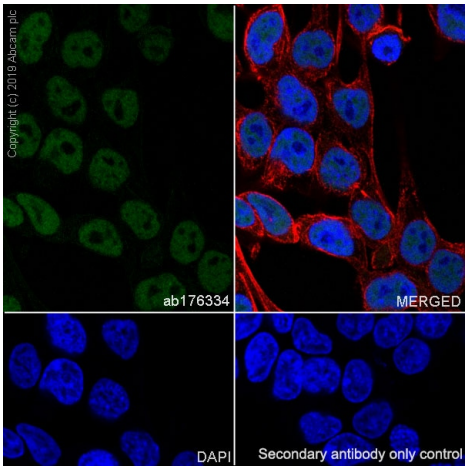
Lane 1 : 293T (Human embryonic kidney epithelial cell) whole cell lysates
Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 3 : Mouse heart lysates
Lane 4 : Rat heart lysates

Lysates/proteins at 20 µg per lane.

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

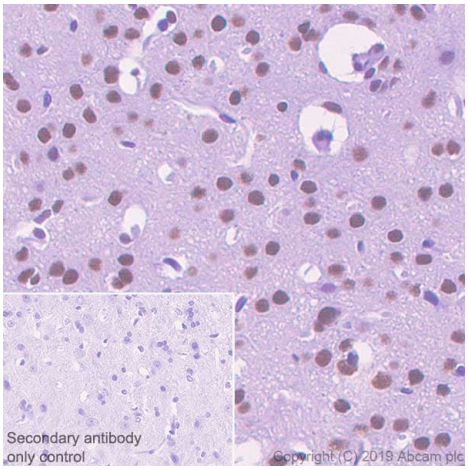
Predicted band size: 69 kDa
Observed band size: 65,80 kDa

ab176334 recoginzes 3 isoforms of ASH2L



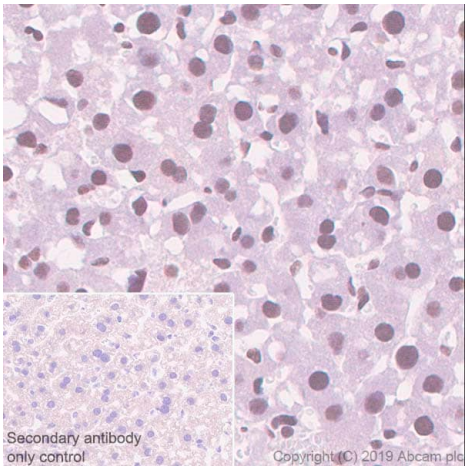
Immunocytochemistry/ Immunofluorescence - Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker (ab176334)

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.



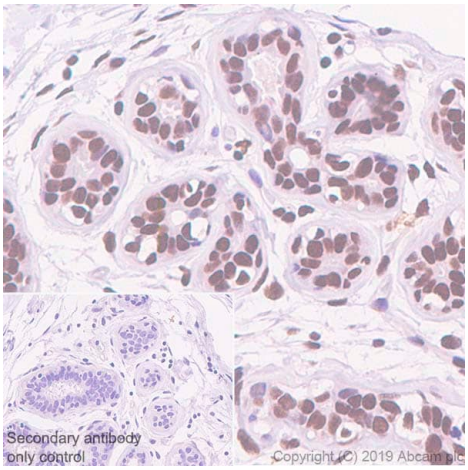
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker (ab176334)

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.



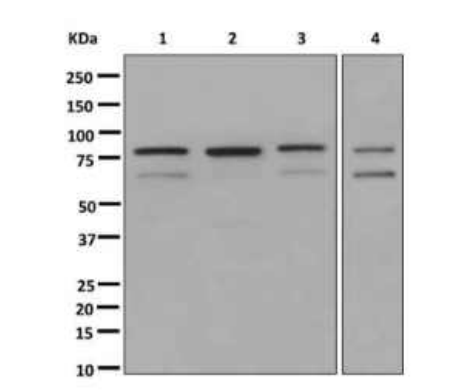
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker (ab176334)

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.



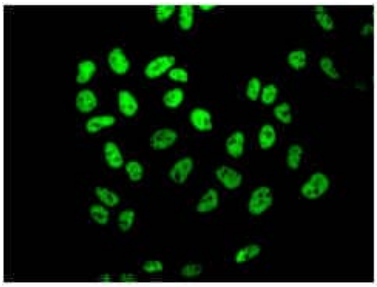
Western blot - Anti-ASH2L antibody [EPR13107(B)] - Nuclear Marker (ab176334)

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

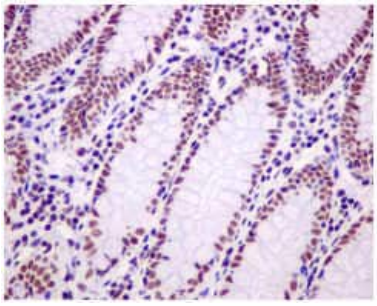
Lysates/proteins at 10 µg per lane.

Predicted band size: 69 kDa



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

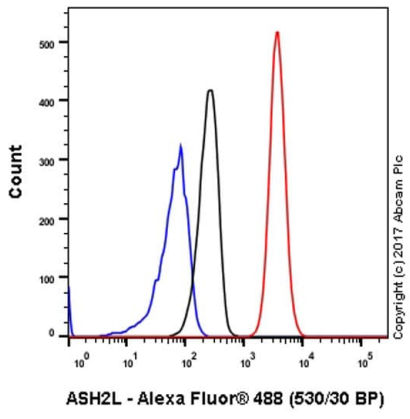
Immunofluorescent analysis of HeLa labeling ASH2L with ab176334 at 1/100 dilution.



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

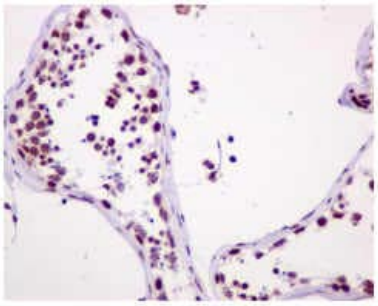
Immunohistochemical analysis of paraffin-embedded Human colon tissue labeing ASH2L with unpurified ab176334 at 1/50 dilution.

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



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

Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling ASH2L (red) with unpurifiedab176334 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 labeing ASH2L with unpurified ab176334 at 1/50 dilution.

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

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors