

Anti-Dnmt3L antibody [EPR18774] - BSA and Azide free ab251178

重组 RabMAb

8 图像

概述

产品名称	Anti-Dnmt3L 抗体[EPR18774] - BSA and Azide free
描述	兔单克隆抗体[EPR18774] to Dnmt3L - BSA and Azide free
宿主	Rabbit
经测试应用	适用于: WB, IHC-P, IP, ICC/IF
种属反应性	与反应: Mouse, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
常规说明	<p>ab251178 is the carrier-free version of ab194094.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	是
克隆	单克隆
克隆编号	EPR18774
同种型	IgG

应用

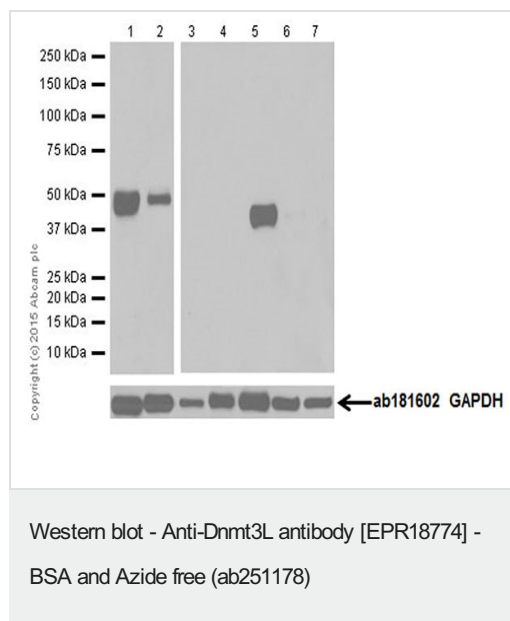
The Abpromise guarantee Abpromise™承诺保证使用ab251178于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use at an assay dependent concentration. Detects a band of approximately 48 kDa (predicted molecular weight: 48 kDa). Predicted and actual band for mouse = 48kDa. Predicted and actual band for human = 44kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Tested using Human tissues only.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

靶标

功能	Catalytically inactive regulatory factor of DNA methyltransferases. It is essential for the function of DNMT3A and DNMT3B. Activates DNMT3A and DNMT3B by binding to their catalytic domain. Accelerates the binding of DNA and AdoMet to the methyltransferases and dissociates from the complex after DNA binding to the methyltransferases. Recognizes unmethylated histone H3 lysine 4 (H3K4) and induces de novo DNA methylation by recruitment or activation of DNMT3.
组织特异性	Expressed at low levels in several tissues including testis, ovary, and thymus.
序列相似性	Belongs to the C5-methyltransferase family. Contains 1 ADD-type zinc finger.
细胞定位	Nucleus.



All lanes : Anti-Dnmt3L antibody [EPR18774] ([ab194094](#)) at 1/1000 dilution

Lane 1 : mESC (Mouse embryonic stem cells) whole cell lysate

Lane 2 : F9 (Mouse embryonic testicular cancer cell line) whole cell lysate

Lane 3 : Rat testis lysate

Lane 4 : NTERA-2 cl.D1 [NT2/D1] (Human malignant pluripotent embryonic carcinoma) whole cell lysate

Lane 5 : NCCIT (Human pluripotent embryonic carcinoma) whole cell lysate

Lane 6 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate

Lane 7 : T-47D (Human ductal breast epithelial tumor cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 48 kDa

Observed band size: 44 kDa

This data was developed using [ab194094](#), the same antibody clone in a different buffer formulation.

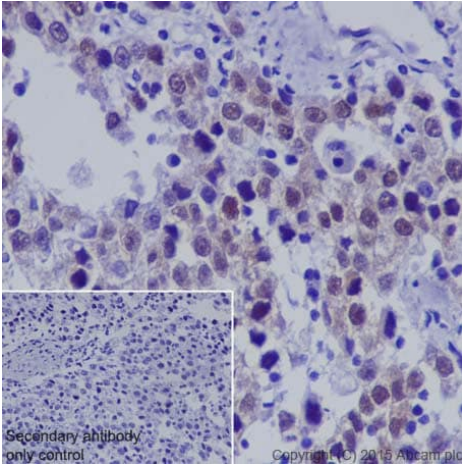
Blocking and dilution buffer: 5% NFDM/TBST.

Observed MW: 48 kDa (mouse), 44 kDa (human).

Exposure times: Lanes 1-2: 1 second; Lanes 3-7: 3 minutes.
GAPDH control lanes: 30 seconds.

1. The predicted molecular weight of human Dnmt3L is 44kDa and the predicted molecular weight of mouse Dnmt3L is 48kDa. This is consistent with what has been observed.

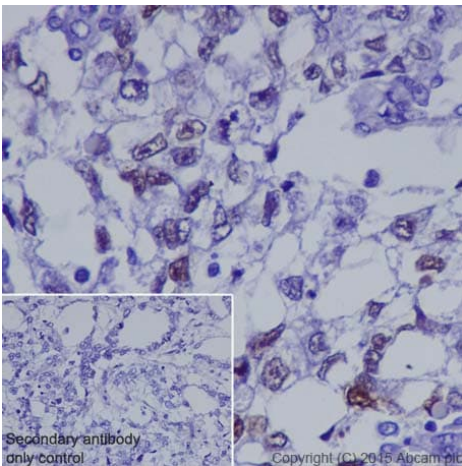
2. HeLa and T-47D cells do not express Dnmt3L (PMID: 20460473).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Dnmt3L antibody [EPR18774] - BSA and Azide free (ab251178)

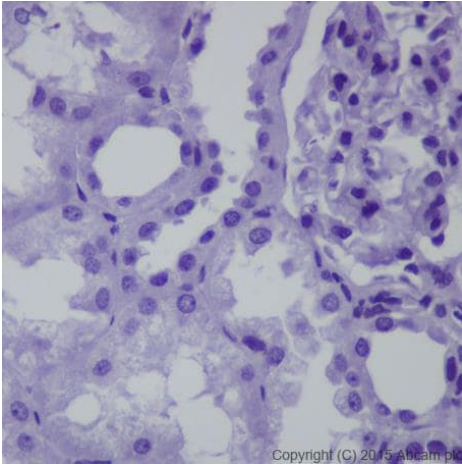
This data was developed using [ab194094](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human seminoma tissue labeling Dnmt3L with [ab194094](#) at 1/50 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Mainly nuclear with weak cytoplasmic staining was found on tumor cells of Human seminoma. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



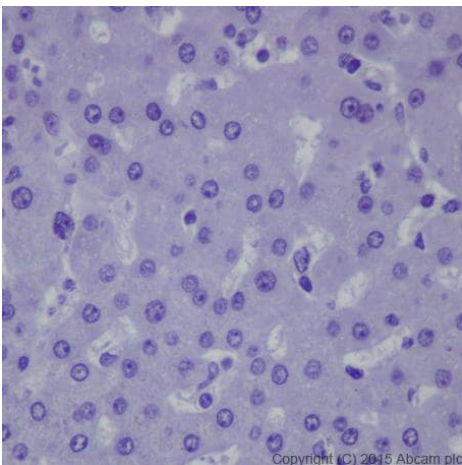
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Dnmt3L antibody [EPR18774] - BSA and Azide free (ab251178)

This data was developed using [ab194094](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human yolk sac tumor tissue labeling Dnmt3L with [ab194094](#) at 1/50 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Nuclear staining was found on the tumor cells of Human yolk sac tumor. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



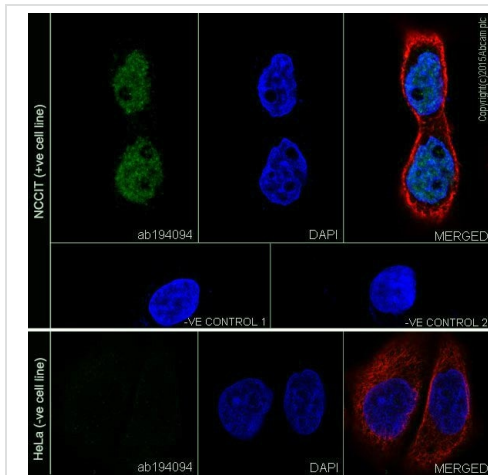
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Dnmt3L antibody [EPR18774] - BSA and Azide free (ab251178)

This data was developed using [ab194094](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling Dnmt3L with [ab194094](#) at 1/50 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Negative staining on the Human liver is observed. Counter stained with Hematoxylin. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



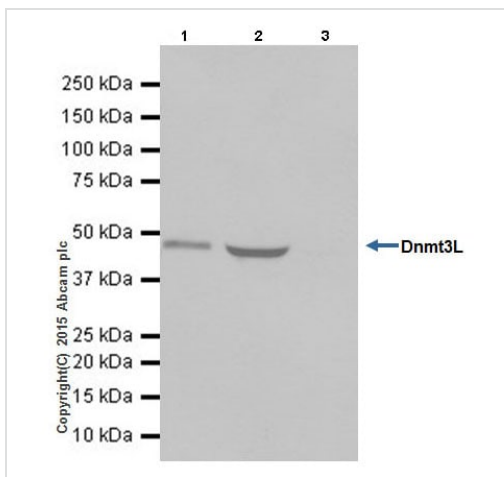
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Dnmt3L antibody [EPR18774] - BSA and Azide free (ab251178)

This data was developed using [ab194094](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling Dnmt3L with [ab194094](#) at 1/50 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Negative staining on the Human liver is observed. Counter stained with Hematoxylin. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Dnmt3L antibody [EPR18774] - BSA and Azide free (ab251178)

This data was developed using **ab194094**, the same antibody clone in a different buffer formulation. Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NCCIT (Human pluripotent embryonic carcinoma) and HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling Dnmt3L with **ab194094** at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining on NCCIT cell line. Negative expression in HeLa cells (PMID: 20460473). The nuclear counterstain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) at 1/1000 dilution and Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (**ab150120**) at 1/1000 dilution (red). The negative controls are as follows: -ve control 1: **ab194094** at 1/250 dilution followed by **ab150120** at 1/1000 dilution. -ve control 2: **ab7291** at 1/1000 dilution followed by **ab150077** at 1/1000 dilution.



Immunoprecipitation - Anti-Dnmt3L antibody [EPR18774] - BSA and Azide free (ab251178)

This data was developed using **ab194094**, the same antibody clone in a different buffer formulation.

Dnmt3L was immunoprecipitated from 1mg of F9 (Mouse embryonic testicular cancer cell line) whole cell lysate with **ab194094** at 1/50 dilution.

Western blot was performed from the immunoprecipitate using **ab194094** at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

Lane 1: F9 whole cell lysate, 10ug (Input).

Lane 2: **ab194094** IP in F9 whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) instead of **ab191594** in F9 whole cell lysate.

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 1 second.

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

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