abcam

Product datasheet

Anti-Dnmt3a antibody ab226261

1 References 2 Images

Overview

Product name Anti-Dnmt3a antibody

Description Rabbit polyclonal to Dnmt3a

Host species Rabbit

Tested applications Suitable for: WB, IHC-P

Species reactivity Reacts with: Mouse, Human

Immunogen Synthetic peptide within Human Dnmt3a aa 125-175. The exact sequence is proprietary.

NP 783328.1

Database link: Q9Y6K1

Positive control WB: HeLa, HEK-293T, Jurkat, TCMK-1 and NIH/3T3 whole cell lysates. IHC-P: Human ovarian

carcinoma tissue.

General notesThe 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 long

term. Avoid freeze / thaw cycle.

Storage buffer pH: 7

Preservative: 0.09% Sodium azide Constituent: Tris citrate/phosphate

pH 7 to 8

Purity Immunogen affinity purified

Purification notes ab226261 was affinity purified using an epitope specific to Dnmt3a immobilized on solid support.

Clonality Polyclonal

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Isotype IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab226261 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
WB		1/2000 - 1/10000. Predicted molecular weight: 102 kDa.
IHC-P		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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Required for genome wide de novo methylation and is essential for the establishment of DNA methylation patterns during development. DNA methylation is coordinated with methylation of histones. It modifies DNA in a non-processive manner and also methylates non-CpG sites. May preferentially methylate DNA linker between 2 nucleosomal cores and is inhibited by histone H1. Plays a role in paternal and maternal imprinting. Required for methylation of most imprinted loci in germ cells. Acts as a transcriptional corepressor for ZNF238. Can actively repress transcription through the recruitment of HDAC activity.

Tissue specificity

Highly expressed in fetal tissues, skeletal muscle, heart, peripheral blood mononuclear cells, kidney, and at lower levels in placenta, brain, liver, colon, spleen, small intestine and lung.

Sequence similarities

Belongs to the C5-methyltransferase family.

Contains 1 ADD domain.

Contains 1 GATA-type zinc finger. Contains 1 PHD-type zinc finger. Contains 1 PWWP domain.

Domain

The PWWP domain is essential for targeting to pericentric heterochromatin.

Post-translational modifications

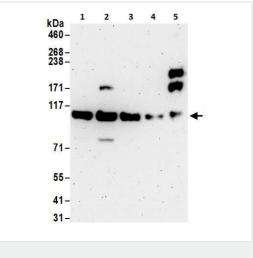
Sum oy lated; sum oy lation disrupts the ability to interact with histone deacety lases (HDAC1 and Interact with histone deacety lases) and the contract of the contract with histone deacety lases (HDAC1 and Interact with histone deacety lases).

HDAC2) and repress transcription.

Cellular localization

Nucleus. Cytoplasm. Accumulates in the major satellite repeats at pericentric heterochromatin.

Images



Western blot - Anti-Dnmt3a antibody (ab226261)

All lanes: Anti-Dnmt3a antibody (ab226261) at 0.1 µg/ml

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2: HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 3 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

Lane 4 : TCMK-1 (mouse kidney epithelial cell line) whole cell lysate

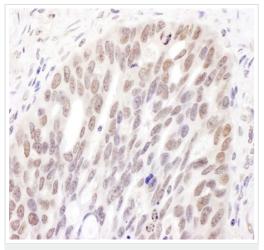
Lane 5 : NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate

Lysates/proteins at 50 µg per lane.

Developed using the ECL technique.

Predicted band size: 102 kDa

Exposure time: 3 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Dnmt3a antibody (ab226261)

Formalin-fixed, paraffin-embedded human ovarian carcinoma tissue stained for Dnmt3a using ab226261 at 1/1000 dilution in immunohistochemical analysis.

Detection: DAB staining. Counterstain: Hematoxylin (blue).

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

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