

Product datasheet

Anti-KMT4 / Dot1L antibody ab72454

[15 References](#) [3 Images](#)

Overview

Product name	Anti-KMT4 / Dot1L antibody
Description	Rabbit polyclonal to KMT4 / Dot1L
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human KMT4/ Dot1L aa 1000-1100. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. Database link: Q8TEK3
Positive control	WB: HeLa whole cell lysate. IP: HeLa whole cell lysate. IHC-P: Human lung carcinoma tissue.
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab72454 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
IHC-P		1/200 - 1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/2000 - 1/10000. Detects a band of approximately 185 kDa (predicted molecular weight: 185 kDa).
IP		Use at 2-5 µg/mg of lysate.

Target

Function

Histone methyltransferase. Methylates 'Lys-79' of histone H3. Nucleosomes are preferred as substrate compared to free histones. Binds to DNA.

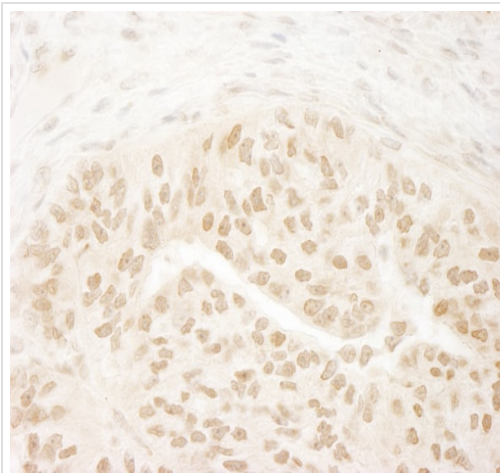
Sequence similarities

Belongs to the class I-like SAM-binding methyltransferase superfamily. DOT1 family. Contains 1 DOT1 domain.

Cellular localization

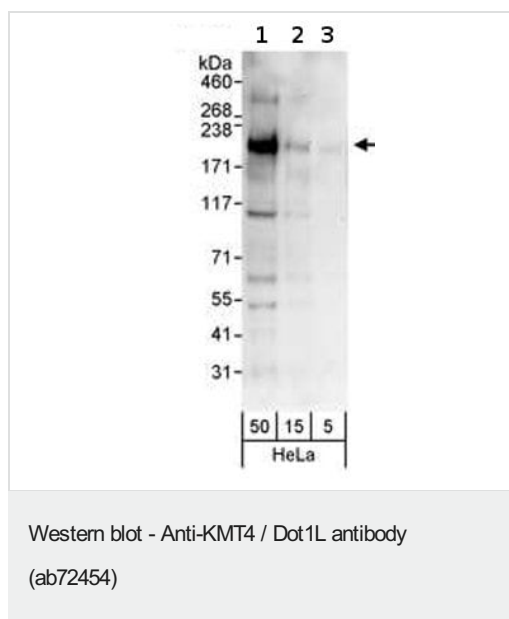
Nucleus.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung carcinoma tissue labelling KMT4 / Dot1L with ab72454 at 1/200 (1µg/ml). Detection: DAB.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KMT4 / Dot1L antibody (ab72454)



All lanes : Anti-KMT4 / Dot1L antibody (ab72454) at 0.04 µg/ml

Lane 1 : HeLa whole cell lysate at 50 µg

Lane 2 : HeLa whole cell lysate at 15 µg

Lane 3 : HeLa whole cell lysate at 5 µg

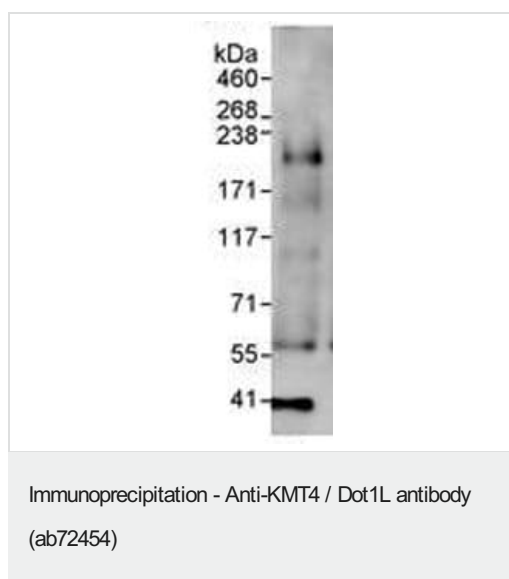
Developed using the ECL technique.

Predicted band size: 185 kDa

Observed band size: 185 kDa

Additional bands at: 100 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 3 minutes



HeLa whole cell lysate (1 mg for IP, 20% of IP loaded) with ab72454 at 3 µg/mg lysate for IP, followed by ab72454 at 1 µg/ml for WB.

Detection: Chemiluminescence with an exposure time of 10 seconds.

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

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