

Anti-Dnmt3L antibody ab3493

★★★★★ [16 Abreviews](#) [15 References](#) [1 图像](#)

概述

产品名称	Anti-Dnmt3L抗体
描述	兔多克隆抗体to Dnmt3L
宿主	Rabbit
特异性	This antibody is expected to cross-react with mouse as the sequence of the human immunogen shows 76% identity with mouse.
经测试应用	适用于: IP
种属反应性	与反应: Human
免疫原	Synthetic peptide corresponding to Human Dnmt3L aa 152-164 conjugated to keyhole limpet haemocyanin. Sequence: C-GLLQRRRKWRSQL

Database link: [Q9UJW3](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

常规说明

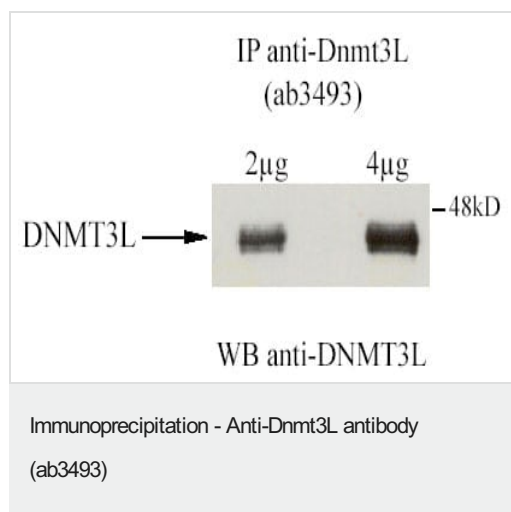
DNMT 3L is a nuclear protein which has similarity to DNA methyltransferases, involved in de novo methylation of CpG islands. CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a nuclear protein with similarity to DNA methyltransferases. This protein is not thought to function as a DNA methyltransferase as it does not contain the amino acid residues necessary for methyltransferase activity. However, this protein does stimulate de novo methylation by DNA cytosine methyltransferase 3 alpha and it is thought to be required for the establishment of maternal genomic imprints. This protein also mediates transcriptional repression through interaction with histone deacetylase 1.

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性能		
形式	Liquid	
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.	
存储溶液	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride	
纯度	Immunogen affinity purified	
纯化说明	This is an affinity purified antibody produced by immunoaffinity chromatography using the immunizing peptide after immobilization to a solid phase. This antibody is expected to cross-react with mouse as the sequence of the human immunogen shows 76% identity with mouse. Reactivity with DNMT3L from other species has not yet been tested.	
Primary antibody说明	DNMT 3L is a nuclear protein which has similarity to DNA methyltransferases, involved in de novo methylation of CpG islands. CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a nuclear protein with similarity to DNA methyltransferases. This protein is not thought to function as a DNA methyltransferase as it does not contain the amino acid residues necessary for methyltransferase activity. However, this protein does stimulate de novo methylation by DNA cytosine methyltransferase 3 alpha and it is thought to be required for the establishment of maternal genomic imprints. This protein also mediates transcriptional repression through interaction with histone deacetylase 1.	
克隆	多克隆	
同种型	IgG	
应用		
The Abpromise guarantee Abpromise™ 承诺保证使用ab3493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
IP	★★★★★ (6)	1/100.
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.	

图片



Transfection of U2OS cells (10cm dish) using 3µg of GAL4-DNMT3L. Protein extraction using IPH 150mM. IP and WB conditions, see Fuks et al. (2000). Nature Genetics 24: 88-91. WB using 0.4µg/ml in TBS milk 2%, BSA 0.5%. Detection using ECL.

Note: ab3493 worked in WB following IP, but did not work in a straight WB.

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