

Anti-Dnmt3L antibody ab3493

★★★★★ [16 Abreviews](#) [15 References](#) [画像数 1](#)

製品の概要

製品名	Anti-Dnmt3L antibody
製品の詳細	Rabbit polyclonal to Dnmt3L
由来種	Rabbit
特異性	This antibody is expected to cross-react with mouse as the sequence of the human immunogen shows 76% identity with mouse.
アプリケーション	適用あり: IP
種交差性	交差種: 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](#)

特記事項

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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製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride
精製度	Immunogen affinity purified
特記事項 (精製)	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.
一次抗体 備考	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.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

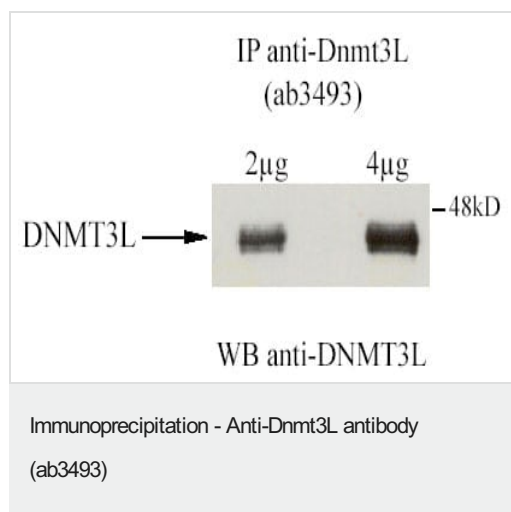
アプリケーション

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アプリケーション	Abreviews	特記事項
IP	★★★★★ (6)	1/100.

ターゲット情報

機能	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.
組織特異性	Expressed at low levels in several tissues including testis, ovary, and thymus.
配列類似性	Belongs to the C5-methyltransferase family. Contains 1 ADD-type zinc finger.
細胞内局在	Nucleus.



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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