

# Recombinant mouse Dnmt1 protein ab91367

**1 References** [画像数 1](#)

### 製品の詳細

製品名	Recombinant mouse Dnmt1 protein
生理活性	Specific activity: 17 units/ul. Definition of specific activity: 1 unit is defined as the amount of the enzyme that transfer 1 pmole of methyl group to poly dI-dC substrate during 30 minutes at 37°C'
精製度	> 95 % SDS-PAGE. Affinity purified.
発現系	Baculovirus infected insect cells
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Mouse
領域	290 to 1620

### 特性

Our **Abpromise guarantee** covers the use of **ab91367** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Functional Studies SDS-PAGE
製品の状態	Liquid
備考	The Dnmt1 Reaction Buffer (5x) and S-adenosylmethionine (SAM) are NOT included. Customers will have to obtain these before starting their experiment. Reaction Conditions: Incubate in 1 x Dnmt1 Reaction Buffer (20mM Tris-HCl, pH7.4, 0.5 mM EDTA, 0.2 mM DTT, 5% glycerol) with 10μM S-adenosylmethionine (SAM) at 37°C.

### 前処理および保存

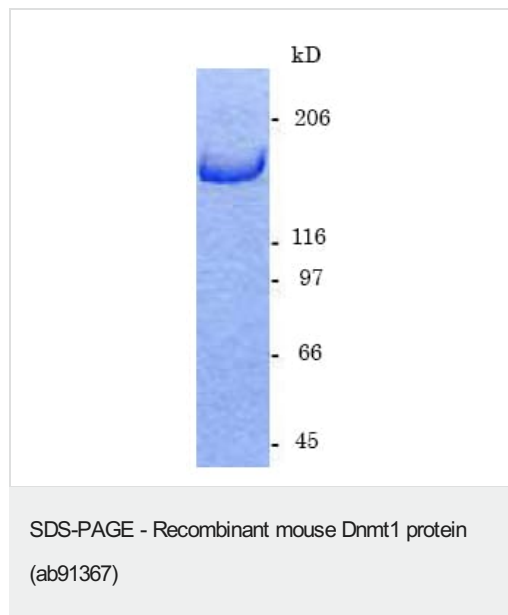
保存方法および安定性	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. pH: 6 Constituents: 0.238% HEPES, 50% Glycerol (glycerin, glycerine), 1.16% Sodium chloride
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

## 関連情報

機能	Methylates CpG residues. Preferentially methylates hemimethylated DNA. Associates with DNA replication sites in S phase maintaining the methylation pattern in the newly synthesized strand, that is essential for epigenetic inheritance. Associates with chromatin during G2 and M phases to maintain DNA methylation independently of replication. It is responsible for maintaining methylation patterns established in development. DNA methylation is coordinated with methylation of histones. Mediates transcriptional repression by direct binding to HDAC2. In association with DNMT3B and via the recruitment of CTCFL/BORIS, involved in activation of BAG1 gene expression by modulating dimethylation of promoter histone H3 at H3K4 and H3K9.
組織特異性	Ubiquitous; highly expressed in fetal tissues, heart, kidney, placenta, peripheral blood mononuclear cells, and expressed at lower levels in spleen, lung, brain, small intestine, colon, liver, and skeletal muscle. Isoform 2 is less expressed than isoform 1.
配列類似性	Belongs to the C5-methyltransferase family. Contains 2 BAH domains. Contains 1 CXXC-type zinc finger.
ドメイン	The N-terminal part is required for homodimerization and acts as a regulatory domain.
翻訳後修飾	Sumoylated; sumoylation increases activity.
細胞内局在	Nucleus.

## 画像



SDS-PAGE showing ab91367 at approximately 140kDa.

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

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