

### Anti-Dnmt1 antibody ab87654

**25 References**    **画像数 3**

#### 製品の概要

製品名	Anti-Dnmt1 antibody
製品の詳細	Rabbit polyclonal to Dnmt1
由来種	Rabbit
特異性	<b>ab87656</b> is recommended for DNMT1 detection in WB.
アプリケーション	<b>適用あり:</b> ICC/IF, WB
種交差性	<b>交差種:</b> Mouse, Human
免疫原	Highly purified recombinant Mouse Dnmt1 (amino acids 1-248), soluble form
特記事項	<p>Useful for analysis of the protein complex containing Dnmt1.</p> <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&amp;As</p>

#### 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. Avoid freeze / thaw cycles.
バッファー	<p>pH: 6</p> <p>Preservative: 0.05% Sodium azide</p> <p>Constituent: 50% Glycerol</p> <p>Traces of Ammonium sulphate</p>
精製度	Immunogen affinity purified
一次抗体 備考	Useful for analysis of the protein complex containing Dnmt1.
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

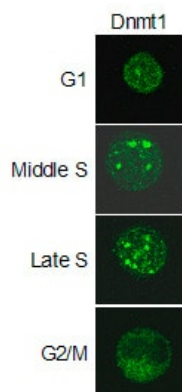
**The Abpromise guarantee**      **Abpromise保証は、次のテスト済みアプリケーションにおけるab87654の使用に適用されます**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF		1/5000.
WB		Use a concentration of 0.2 - 1 µg/ml. Detects a band of approximately 183 kDa (predicted molecular weight: 183 kDa).

## ターゲット情報

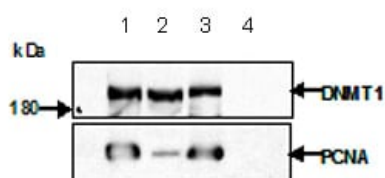
機能	Methylates CpG residues. Preferentially methylates hemimethylated DNA. Associates with DNA replication sites in S phase maintaining the methylation pattern in the newly synthesized strand, that is essential for epigenetic inheritance. Associates with chromatin during G2 and M phases to maintain DNA 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



Immunocytochemistry/ Immunofluorescence - Anti-Dnmt1 antibody (ab87654)

ab87654 being used to indicate the subcellular localization of Dnmt1 in mouse embryonic stem cells (E14) during cell cycle progression.



Western blot - Anti-Dnmt1 antibody (ab87654)

**All lanes :** Anti-Dnmt1 antibody (ab87654) at 1 µg/ml

**Lane 1 :** Tagged-NP 95 + BirA Input

**Lane 2 :** Tagged-NP 95 + BirA Beads

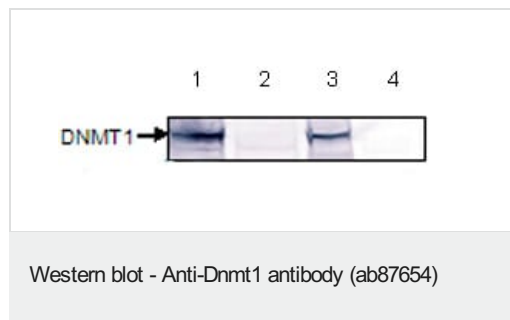
**Lane 3 :** BirA Input

**Lane 4 :** BirA Beads

**Predicted band size:** 183 kDa

**Observed band size:** 183 kDa

Association of Np95 with Dnmt1 and PcnA in HeLa cell nuclear extracts. Human NP95 was tagged by biotin-binding domain and stably expressed in HeLa cells together with the *E. coli* BirA biotin ligase gene. Biotylated Np95 was captured by streptavidin beads. The captured proteins were eluted from the beads and analyzed by western blotting using antibodies against Dnmt1 (ab87654) and PcnA.



**All lanes :** Anti-Dnmt1 antibody (ab87654) at 1 µg/ml

**Lane 1 :** Dnmt1 1+/+ (J1) (nuclear extract)

**Lane 2 :** Dnmt1 1-/- (36-2D6) (nuclear extract)

**Lane 3 :** Tagged-NP95 + BirA (0.1M KCl fraction)

**Lane 4 :** BirA (0.1M KCl fraction)

**Predicted band size:** 183 kDa

Catalytic activity of NP95 associated Dnmt1 in HeLa cells. The presence of Dnmt1 in the NP95 complexes was confirmed by western blot.

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