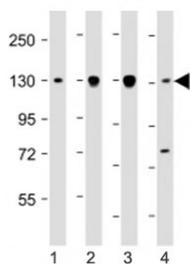


## Dnmt3a Antibody [clone 1823CT281.43.36] (F54141)

Catalog No.	Formulation	Size
F54141-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54141-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	1823CT281.43.36
<b>Purity</b>	Protein G purified
<b>UniProt</b>	Q9Y6K1
<b>Applications</b>	Western Blot : 1:2000-1:4000
<b>Limitations</b>	This Dnmt3a antibody is available for research use only.



Western blot testing of Dnmt3a antibody at 1:2000: Lane 1) human T47D, 2) CCRF-CEM, 3) Jurkat and 4) HeLa cell lysate. Predicted molecular weight: 100-130 kDa.

### Description

Required for genome-wide de novo methylation and is essential for the establishment of DNA methylation patterns during development. DNA methylation is coordinated with methylation of histones. It modifies DNA in a non-processive manner and also methylates non-CpG sites. May preferentially methylate DNA linker between 2 nucleosomal cores and is inhibited by histone H1. Plays a role in paternal and maternal imprinting. Required for methylation of most imprinted loci in germ cells. Acts as a transcriptional corepressor for ZBTB18. Recruited to trimethylated 'Lys-36' of histone H3

(H3K36me3) sites. Can actively repress transcription through the recruitment of HDAC activity. [UniProt]

## **Application Notes**

The stated application concentrations are suggested starting points. Titration of the Dnmt3a antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## **Immunogen**

Recombinant human Dnmt3a was used as the immunogen for the Dnmt3a antibody.

## **Storage**

Aliquot the Dnmt3a antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.