

**Dnmt3a Rabbit mAb**  
Catalog # AP78514**Specification****Dnmt3a Rabbit mAb - Product Information**

Application	<b>WB, IHC-P, FC, ICC</b>
Primary Accession	<b><a href="#">Q9Y6K1</a></b>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Monoclonal Antibody</b>
Calculated MW	<b>101858</b>

**Dnmt3a Rabbit mAb - Additional Information****Gene ID** 1788**Other Names**  
DNMT3A**Format**  
Liquid**Dnmt3a Rabbit mAb - Protein Information****Name** DNMT3A**Function**

Required for genome-wide de novo methylation and is essential for the establishment of DNA methylation patterns during development (PubMed:[12138111](http://www.uniprot.org/citations/12138111)), PubMed:[16357870](http://www.uniprot.org/citations/16357870)), PubMed:[30478443](http://www.uniprot.org/citations/30478443)). DNA methylation is coordinated with methylation of histones (PubMed:[12138111](http://www.uniprot.org/citations/12138111)), PubMed:[16357870](http://www.uniprot.org/citations/16357870)), PubMed:[30478443](http://www.uniprot.org/citations/30478443)). It modifies DNA in a non-processive manner and also methylates non-CpG sites (PubMed:[12138111](http://www.uniprot.org/citations/12138111)), PubMed:[16357870](http://www.uniprot.org/citations/16357870)), PubMed:[30478443](http://www.uniprot.org/citations/30478443)). May preferentially methylate DNA linker between 2 nucleosomal cores and is inhibited by histone H1 (By similarity). Plays a role in paternal and maternal imprinting (By similarity). Required for methylation of most imprinted loci in germ cells (By similarity). Acts as a transcriptional corepressor for ZBTB18 (By similarity). Recruited to trimethylated 'Lys-36' of histone H3 (H3K36me3) sites (By similarity). Can actively repress transcription through the recruitment of HDAC activity (By similarity). Also has weak auto-methylation activity on Cys-710 in absence of DNA (By similarity).

**Cellular Location**

Nucleus. Chromosome Cytoplasm. Note=Accumulates in the major satellite repeats at pericentric heterochromatin {ECO:0000250|UniProtKB:O88508}

**Tissue Location**

Highly expressed in fetal tissues, skeletal muscle, heart, peripheral blood mononuclear cells, kidney, and at lower levels in placenta, brain, liver, colon, spleen, small intestine and lung

**Dnmt3a Rabbit mAb - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Dnmt3a Rabbit mAb - Images**