

# Dnmt3a Rabbit mAb

Catalog # AP76472

## Product Information

Application	WB
Primary Accession	<a href="#">Q9Y6K1</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	101858

## Additional Information

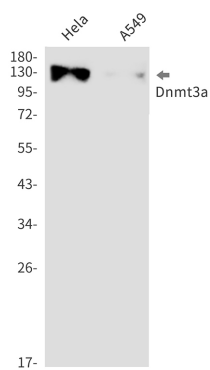
Gene ID	1788
Other Names	DNMT3A
Dilution	WB~~1/500-1/1000
Format	Liquid

## 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: <a href="#">12138111</a> , PubMed: <a href="#">16357870</a> , PubMed: <a href="#">30478443</a> ). DNA methylation is coordinated with methylation of histones (PubMed: <a href="#">12138111</a> , PubMed: <a href="#">16357870</a> , PubMed: <a href="#">30478443</a> ). It modifies DNA in a non-processive manner and also methylates non-CpG sites (PubMed: <a href="#">12138111</a> , PubMed: <a href="#">16357870</a> , PubMed: <a href="#">30478443</a> ). 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

## Images

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