

Dnmt3a Rabbit mAb

Catalog # AP76472

Product Information

Application	WB
Primary Accession	Q9Y6K1
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	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

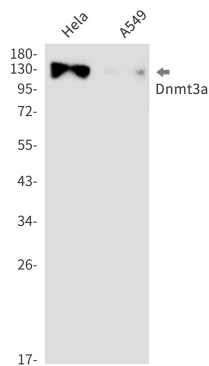
Protein Information

Name	DNMT3A
Function	Required for genome-wide de novo methylation and is essential for the establishment of DNA methylation patterns during development (PubMed: 12138111 , PubMed: 16357870 , PubMed: 30478443). DNA methylation is coordinated with methylation of histones (PubMed: 12138111 , PubMed: 16357870 , PubMed: 30478443). It modifies DNA in a non-processive manner and also methylates non-CpG sites (PubMed: 12138111 , PubMed: 16357870 , PubMed: 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

Images



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