

# Anti-DNMT3A Antibody

Rabbit polyclonal antibody to DNMT3A

Catalog # AP60159

## Product Information

Application	WB
Primary Accession	<a href="#">Q9Y6K1</a>
Other Accession	<a href="#">O88508</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	101858

## Additional Information

Gene ID	1788
Other Names	DNA (cytosine-5)-methyltransferase 3A; Dnmt3a; DNA methyltransferase HsaIIIA; DNA MTase HsaIIIA; M.HsaIIIA
Target/Specificity	Recognizes endogenous levels of DNMT3A protein.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## 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

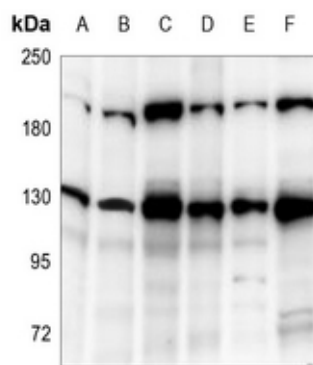
## Background

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KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human DNMT3A. The exact sequence is proprietary.

## Images

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Western blot analysis of DNMT3A expression in MEF (A), H9C2 (B), HCT116 (C), Jurkat (D), PC3 (E), HEK293T (F) whole cell lysates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.