



## Anti-DNMT3A Antibody (Clone ABM13G4)

**Alternative Names:** DNMT3A, DNA (cytosine-5)-methyltransferase 3A, DNA methyltransferase Hsa11A, DNA MTase Hsa11A, M.Hsa11A, Dnmt3a

**Catalogue Number:** AA17-10026-100ug

**Size:** 100 µg

### Background Information

DNA methyltransferase 3A (DNMT3A) belongs to the mammalian methyltransferase gene family which is responsible for tissue-specific gene expression. DNMT3A together with other methyltransferases carries out de novo methylation of cytosine residues in CpG islands by the enzymatic addition of methyl residues from S-adenosyl-L-methionine to the 5-carbon atom of the cytosine ring.

DNMT3A also represses key genes enabling the coupling of insulin secretion to glucose levels during beta cell maturation. Loss of Dnmt3a in pancreatic beta cells prevents this developmental metabolic reprogramming, resulting in loss of GSIS (Glucose-Stimulated Insulin Secretion). Dnmt3a overexpression has been shown in several cancers including AML (Acute Myeloid Leukemia).

### Product Information

<b>Antibody Type:</b>	Monoclonal	<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1 kappa	<b>Species Reactivity:</b>	Human
<b>Immunogen:</b>	Partial length recombinant human DNMT3a		
<b>Format:</b>	100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide.		
<b>Storage Conditions:</b>	6 months: 4°C. Long-term storage: -20°C. Avoid multiple freeze and thaw cycles.		
<b>Applications:</b>	FACS   WB WB: 2-4 ug/ml, FACS: 0.5-1 ug/10 <sup>6</sup>		

### Additional Information

<b>Subcellular location:</b>	Nucleus	<b>MW:</b>	102kDa (Intended as a general guide and does not allow for all isoforms and species variations)
<b>Gene ID</b>	1788	<b>Uniprot ID:</b>	Q9Y6K1