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10-7004: Monoclonal Antibody to DNMT3a (Clone: ABM1F35)

Clonality :	Monoclonal
Clone Name :	ABM1F35
Application :	WB
Reactivity :	Human
Gene :	DNMT3A
Gene ID :	1788
Uniprot ID :	Q9Y6K1
Format :	Purified
Alternative Name :	DNMT3A
Isotype :	Mouse IgG1 Kappa
Immunogen Information :	Full length recombinant DNMT3a protein was used as the immunogen for this antibody

Description

Dnmt3a belongs to the mammalian methyltransferase gene family which is responsible for tissue-specific gene expression. Dnmt3a together with other methyltransferases conducts 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 directs a metabolic program by repressing key genes to enable 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 found in several cancers including AML (Acute Myeloid Leukemia).

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis: 2-4 µg/ml

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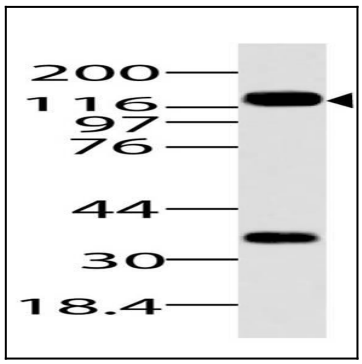


Fig-1: Western blot analysis of DNMT3a. Anti-DNMT3a antibody (Clone: ABM1F35) was used at 2 µg/ml HEK 293 lysate

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