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10-7003-F: Monoclonal Antibody to DNMT3a (Clone: ABM13G4)

Clonality: Monoclonal Clone Name: ABM13G4 Application: **FACS** Reactivity: Human Conjugate: **FITC** Gene: DNMT3A Gene ID: 1788 **Uniprot ID:** Q9Y6K1 Format: Purified

Alternative Name:

DNA (cytosine-5)-methyltransferase 3A, DNA methyltransferase HsallIA, DNA MTase HsallIA,

M.HsallIA

Isotype: Mouse IgG1, Kappa

Immunogen Information: A partial length recombinant protein from DNMT3a 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: 100 μg

Purification: Protein G Chromatography

Content: 25 μg in 125 μl/100 μg in 500 μl Tris and 0.05% sodium azide. Sodium azide is highly toxic.

Storage condition : Store the antibody at 4°C, stable for 6 months.

Application Note

FACS: 0.5-1 µg/10^6



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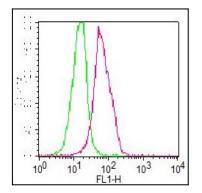


Fig-1: Intracellular FLOW staining of PMA treated Jurkat cells using 0.5 μ g of antibody. Green represents FITC conjugated IgG1 isotype control (Abeomics), Red represents FITC conjugated DNMT3a (10-7003-F).