

Anti-Human DNMT3B-164Dy

Catalog: 3164021B

Package Size: 100 tests

Storage: Store product at 4°C. Do not freeze.

Reactivity: Human,

Clone: 832121

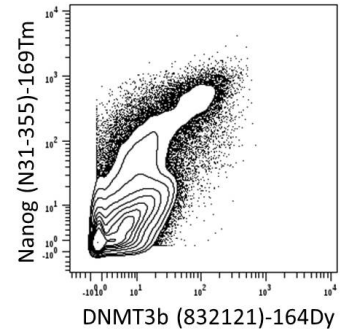
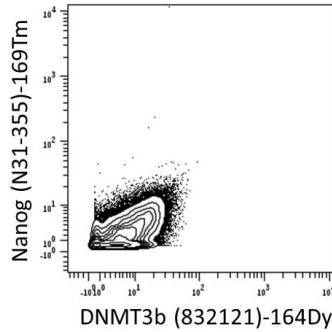
Isotype: IgG2a

Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF[®] analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human BJ fibroblasts were either unprogrammed (left) or reprogrammed for 21 days by transduction with the factors OCT-4, SOX2, KLF4 and c-MYC (OKSM). Cells were then stained with 169Tm-anti-Nanog (N31-355) and 164Dy-anti-DNMT3b (832121) using the Nuclear Antigen Staining Buffer Set (cat. 201063). Total viable cells are displayed in the analysis. Cells kindly provided courtesy of Craig E. Nelson lab, University of Connecticut.

Description

DNMT3B, also known as DNA methyltransferase 3B or DNA MTase HsaIIIB, is a 95-110 kDa member of the C5-methyltransferase family of enzymes. It functions as de novo methyltransferases and is essential for the establishment of DNA methylation patterns during development. DNMT3B is ubiquitously expressed in the embryo and found associated with nuclear pericentric heterochromatin. It is expressed at very low level in most tissues except the testis, thyroid and bone marrow. DNMT3B level is profoundly increased in various cancers, including acute and chronic myelogenous leukemias, in addition to colon, breast and stomach carcinomas.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. **Highly Multiparametric Analysis by Mass Cytometry.** *J Immunol Methods* 361 (1-2):1-20, 2010.

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