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Product datasheet for TA336383

DNMT3A Mouse Monoclonal Antibody [Clone ID: 64B814.1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	64B814.1
Applications:	FC, ICC/IF, WB
Recommended Dilution:	Flow (Intracellular), Western Blot: 1-3 ug/ml, Immunocytochemistry/ Immunofluorescence: 5 ug/ml
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	This antibody was raised against bacteria expressed HIS-tag recombinant mouse Dnmt3a.
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	DNA (cytosine-5-)-methyltransferase 3 alpha
Database Link:	NP_783328 Entrez Gene 13435 MouseEntrez Gene 1788 Human Q9Y6K1

View online »

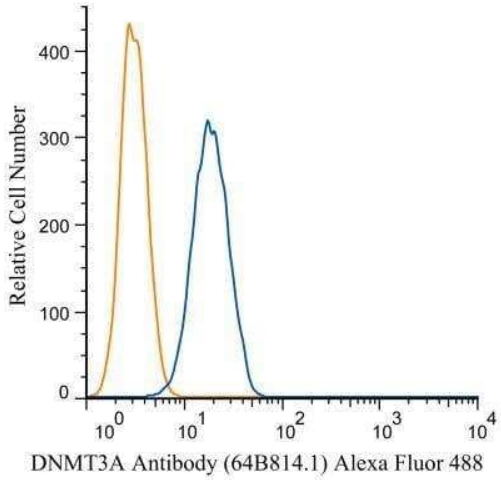
Background: Methylation of DNA at cytosine residues plays an important role in regulation of gene expression, genomic imprinting and is essential for mammalian development. Hypermethylation of CpG islands in tumor suppressor genes or hypomethylation of bulk genomic DNA may be linked with development of cancer. To date, 3 families of mammalian DNA methyltransferase genes have been identified which include Dnmt1, Dnmt2 and Dnmt3. Dnmt1 is constitutively expressed in proliferating cells and inactivation of this gene causes global demethylation of genomic DNA and embryonic lethality. Dnmt2 is expressed at low levels in adult tissues and its inactivation does not affect DNA methylation or maintenance of methylation. The Dnmt3 family members, Dnmt3a and Dnmt3b, are strongly expressed in ES cells but their expression is down regulated in differentiating ES cells and is low in adult somatic tissue. Recently, it has been shown that naturally occurring mutations of Dnmt3b gene occurs in patients with a rare autosomal recessive disorder, termed ICF (immunodeficiency, centromeric instability, and facial anomalies) syndrome.

Synonyms: DNMT3A2; M.HsaIIIA; TBRS

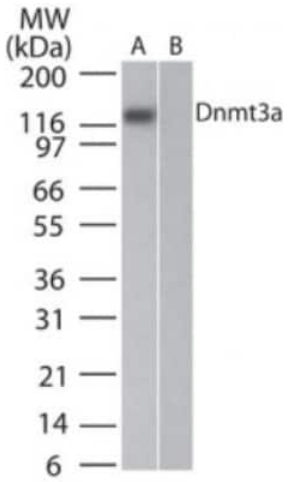
Protein Families: Druggable Genome

Protein Pathways: Cysteine and methionine metabolism, Metabolic pathways

Product images:



Flow (Intracellular): DNMT3A Antibody (64B814.1) TA336383 - Analysis of Alexa Fluor (R) 488 conjugate of TA336383. An intracellular stain was performed on HeLa cells with DNMT3A antibody (64B814.1) TA336383AF488 (blue) and a matched isotype control NBP2-27287AF488 (orange).



Western Blot: DNMT3A Antibody (64B814.1) TA336383 - Analysis of Dnmt3a in (A) Dnmt3a transfected and (B) untransfected 293 cell lysate using Dnmt3a antibody at 1 ug/ml.