

Dnmt3b Rabbit mAb

Catalog No: #48739

Package Size: #48739-1 50ul #48739-2 100ul

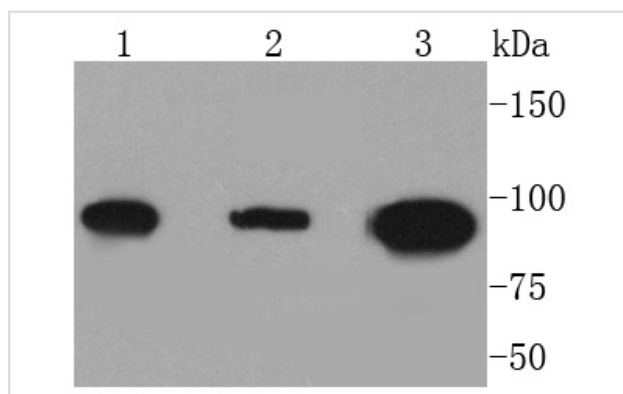
Description

Product Name	Dnmt3b Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SY09-07
Purification	ProA affinity purified
Applications	WB, ICC/IF
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Cytosine 5methyltransferase 3B antibody DNA antibody DNA (cytosine 5) methyltransferase 3 beta antibody DNA (cytosine 5)-methyltransferase 3B antibody DNA (cytosine-5)-methyltransferase 3B antibody DNA methyltransferase HsaIIIB antibody DNA MTase HsaIIIB antibody DNMT3B_HUMAN antibody Dnmt3b antibody EC 2.1.1.37 antibody ICF antibody ICF1 antibody M.HsaIIIB antibody MGC124407 antibody RP23-89H14.3 antibody
Accession No.	Swiss-Prot#:Q9UBC3
Calculated MW	96 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:1,000-1:2,000 ICC: 1:50-1:200

Images



Western blot analysis of Dnmt3b on different lysates using anti-Dnmt3b antibody at 1/1,000 dilution. Positive control:
Lane 1: A549 Lane 2: Hela Lane 3: A431

Background

Methylation at the 5'-position of cytosine is the only known naturally occurring covalent modification of the mammalian genome. DNA methylation

requires the enzymatic activity of DNA 5-cytosine methyltransferase (Dnmt) proteins, which catalyze the transfer of a methyl group from S-adenosyl methionine to the 5'-position of cytosines residing in the dinucleotide CpG motif, and this methylation results in transcriptional repression of the target gene. The Dnmt enzymes are encoded by independent genes. Dnmt1 is the most abundant, and it preferentially methylates hemimethylated DNA and coordinates gene expression during development. Additional mammalian Dnmt proteins include Dnmt2 and Dnmt3. Dnmt2 lacks the large N-terminal regulator domain of Dnmt1, is expressed at substantially lower levels in adult tissues, and is likely involved in methylating newly integrated retroviral DNA. Dnmt3a and Dnmt3b are encoded by two distinct genes, but both are abundantly expressed in embryonic stem cells, where they also methylate CpG motifs on DNA.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.