

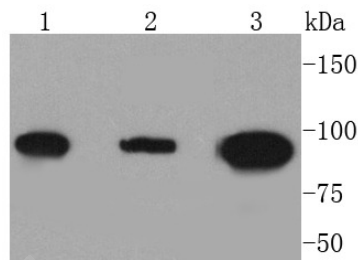
Anti-Dnmt3b Antibody (5S88)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 96 kDa.
Clone:	5S88
Purification:	ProA affinity purified

Applications

Verified Activity: 1. 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.



Application:	ICC/IF,WB
Recommended	WB: 1:1000-2000; ICC/IF: 1:50-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q9UBC3
Synonyms:	DNA;M.HsaIIIB;DNA (cytosine 5) methyltransferase 3 beta;ICF;RP23-89H14.3;Dnmt 3b;Cytosine 5methyltransferase 3B;DNA (cytosine-5)-methyltransferase 3B;ICF1;MGC124407;DNA (cytosine 5)-methyltransferase 3B;DNA methyltransferase HsaIIIB;DNA MTase HsaIIIB;DNM3B_HUMAN;EC 2.1.1.37

Research 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

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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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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