

bs-20680R**[Primary Antibody]****Dnmt3b Rabbit pAb****Bioss**
ANTIBODIES

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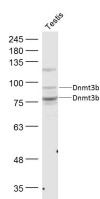
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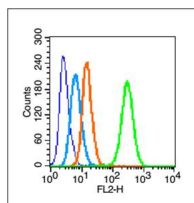
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DATASHEET

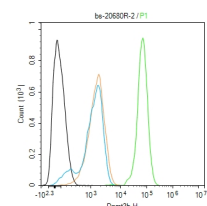
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) Flow-Cyt (2µg/Test) Reactivity: Human, Mouse (predicted: Rabbit, Dog, Horse) Predicted MW.: 94 kDa Subcellular Location: Nucleus
Clonality: Polyclonal		
GeneID: 1789	SWISS: Q9UBC3	
Target: Dnmt3b		
Immunogen: KLH conjugated synthetic peptide derived from human Dnmt3b: 251-350/853.		
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
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.		

VALIDATION IMAGES

Sample: Testis (Mouse) Lysate at 40 ug
Primary: Anti- Dnmt3b (bs-20680R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 94 kD
Observed band size: 80/94 kD



Blank control (blue line): HepG2 (fixed with 70% methanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C). Primary Antibody (green line): Rabbit Anti-Dnmt3b antibody (bs-20680R), Dilution: 0.2µg / 10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE, Dilution: 1µg / test.



Blank control (black line) :K562. Primary Antibody (green line): Rabbit Anti-Dnmt3b antibody (bs-20680R) Dilution:2ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control (orange line) : Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=6.8]** Ruimeng Liu. et al. Protective role of curcumin on broiler liver by modulating aflatoxin B1-induced DNA methylation and CYPs expression. ECOTOX ENVIRON SAFE. 2023 Jul;260:115086 WB ;Chicken. 37269612