

Datasheet for ABIN933161 **anti-DNMT3B antibody**

3 Images



[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	DNMT3B
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunocytochemistry (ICC), Dot Blot (DB)

Product Details

Immunogen:	DNMT3 B antibody was raised in mouse using recombinant Human Dna (Cytosine-5)-Methyltransferase 3 Beta (Dnmt3)
Clone:	2280C3a
Isotype:	IgG2b
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Cross-Reactivity (Details):	Other species not studied.
Purification:	Protein G affinity chromatography

Target Details

Target:	DNMT3B
Alternative Name:	DNMT3B (DNMT3B Products)
Background:	CpG methylation is an epigenetic modification that is important for embryonic development,

Target Details

imprinting, and X chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a DNA methyltransferase which is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes primarily to the nucleus and its expression is developmentally regulated. Mutations in this gene cause the immunodeficiency-centromeric instability-facial anomalies (ICF) syndrome. Six alternatively spliced transcript variants have been described. The full length sequences of variants 4 and 5 have not been determined. Synonyms: Monoclonal DNMT3B antibody, Anti-DNMT3B antibody, DNA (cytosine-5)-methyltransferase 3 beta antibody, ICF antibody, M.HsaIIIB antibody.

Application Details

Application Notes: WB: 0.2-2 µg/mL, FC: 0.5-2 µg/sample, ICC: 2-100 µg/mL
Optimal conditions should be determined by the investigator.

Restrictions: For Research Use only

Handling

Concentration: Lot specific

Buffer: DNMT3 B antibody in PBS (3.0 mM KCl, 1.5 mM KH₂ PO₄, 140 mM NaCl, 8.0 mM Na₂ HPO₄ (pH 7.4)) containing 1 % bovine serum albumin (BSA) and 0.05 % sodium azide (NaN₃).

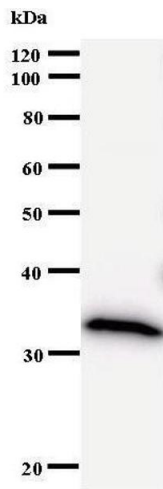
Preservative: Sodium azide

Precaution of Use: This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze/thaw cycles.
Dilute only prior to immediate use.

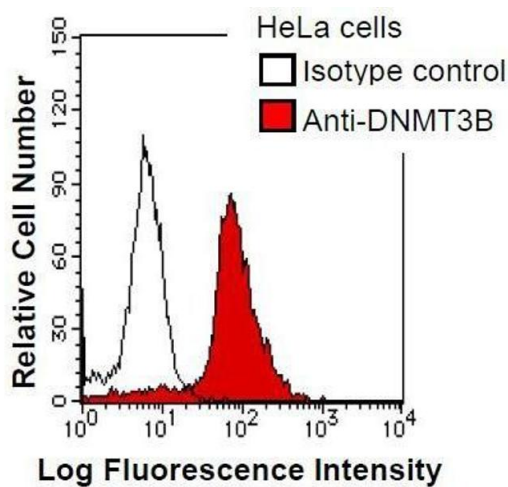
Storage: 4 °C/-20 °C

Storage Comment: Store at 2-8 °C for up to one year. We recommend long term storage at -20 °C.



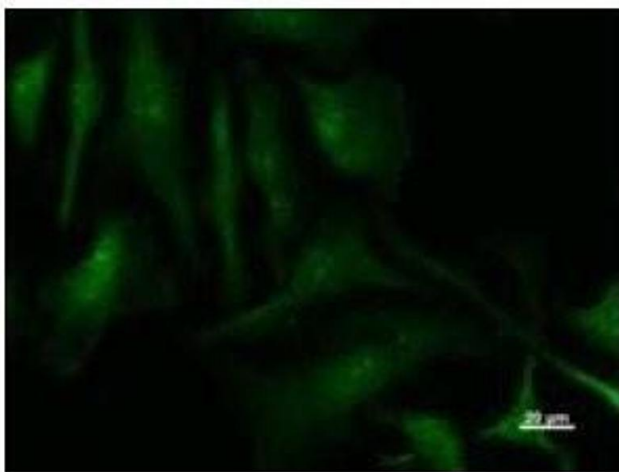
Western Blotting

Image 1.



Flow Cytometry

Image 2. HeLa cells were fixed in 2% paraformaldehyde/PBS and then permeabilized in 90% methanol. Cells were stained with anti-DNMT3B antibody (shaded) or isotype control (unshaded) followed by Alexa Fluor 488 conjugated goat anti-mouse IgG.



Immunofluorescence

Image 3. Immunostaining analysis in HeLa cells. HeLa cells were fixed with 4% paraformaldehyde and permeabilized with 0.01% Triton-X100 in PBS. The cells were immunostained with anti-DNMT3B antibody.