

Rabbit DNMT3B Polyclonal Antibody | anti-DNMT3B antibody

Anti-DNMT3B Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126007	Rabbit	Human, Mouse, Rat, Monkey	Western Blot, Flow Cytometry, Functional Assay, ELISA

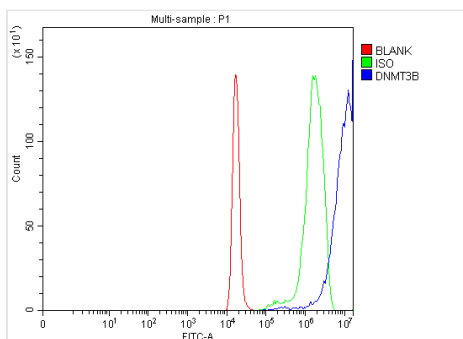
PRODUCT SYNONYMS

DNMT3B; Polyclonal Antibody; Anti-DNMT3B Antibody Picoband; anti-DNMT3B antibody

PRODUCT SPECIFICATIONS

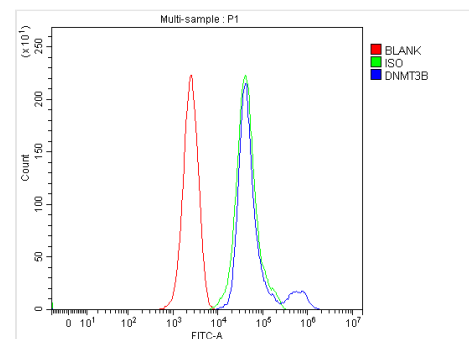
Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-DNMT3B antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human DNMT3B recombinant protein (Position: E271-E853).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



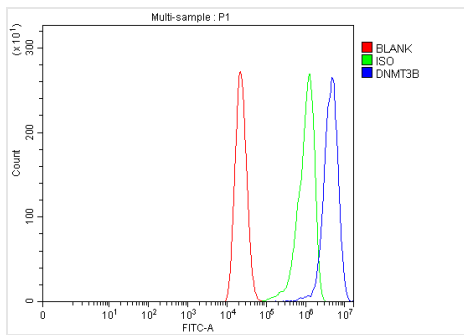
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of C6 cells using anti-DNMT3B antibody (AAA126007). Overlay histogram showing C6 cells stained with AAA126007 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DNMT3B Antibody (AAA126007, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



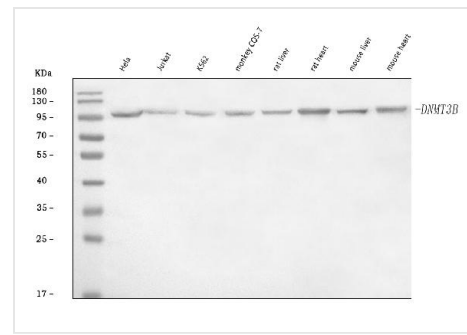
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of ANA-1 cells using anti-DNMT3B antibody (AAA126007). Overlay histogram showing ANA-1 cells stained with AAA126007 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DNMT3B Antibody (AAA126007, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of CACO-2 cells using anti-DNMT3B antibody (AAA126007). Overlay histogram showing CACO-2 cells stained with AAA126007 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DNMT3B Antibody (AAA126007, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of DNMT3B using anti-DNMT3B antibody (AAA126007). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human Jurkat whole cell lysates, Lane 3: human K562 whole cell lysates, Lane 4: monkey COS-7 whole cell lysates, Lane 5: rat liver tissue lysates, Lane 6: rat heart tissue lysates, Lane 7: mouse liver tissue lysates, Lane 8: mouse heart tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DNMT3B antigen affinity purified polyclonal antibody (#AAA126007) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for DNMT3B at approximately 100 kDa. The expected band size for DNMT3B is at 96 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-DNMT3B antibody

DNA (cytosine-5-)-methyltransferase 3 beta, is an enzyme that in humans is encoded by the DNMT3B gene. CpG methylation is an epigenetic modification that is important for embryonic development, 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. Eight alternatively spliced transcript variants have been described. The full length sequences of variants 4 and 5 have not been determined.

Product Categories/Family for anti-DNMT3B antibody

Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	56549123
NCBI GeneID	1785
NCBI Accession #	NP_001005361.1
NCBI GenBank Nucleotide #	NM_001005361.2
UniProt Accession #	P50570; Q5I0Y0; Q7Z5S3; Q9UPH4; A8K1B6; E7EV30; E9PEQ4; K7ESI9
Molecular Weight	98,064 Da
NCBI Official Full Name	dynamamin-2 isoform 2
NCBI Official Synonym Full Names	dynamamin 2
NCBI Official Symbol	DNM2
NCBI Official Synonym Symbols	DYN2; CMT2M; DYNII; CMTDI1; CMTDIB; DI-CMTB
NCBI Protein Information	dynamamin-2; dynamamin II
UniProt Protein Name	Dynamamin-2

UniProt Gene Name	DNM2
UniProt Synonym Gene Names	DYN2
UniProt Entry Name	DYN2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/dnmt3b-antibody-western-blot-flow-cytometry-elisa/126007>