

**DATASHEET**

**DNMT3B Rabbit Monoclonal Antibody(C4069)**

**CAT. NO. AMA03889**

**KEY FEATURES**

Target	DNMT3B	Source / Host	Rabbit
Reactivity	Human,Mouse,Rat	Clonality	Monoclonal
Applications	WB,IF/ICC	Conjugation	Unconjugated
Storage	at-20°C		

**BACKGROUND**

DNMT3B is a DNA-(cytosine C5)-methyltransferase that is responsible for establishing the methylation patterns in cooperation with DNMT3A through the de novo methylation pathway. It is essential for the establishment of DNA methylation patterns during development. DNMT3B contains a C-terminal catalytic domain and an N-terminal regulatory domain, which are involved in targeting chromatin to regulate its function (PMID: 31547729). DNMT3B has 8 isoforms with the molecular mass of 80-96 kDa.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**OVERVIEW**

Description	Rabbit monoclonal antibody to DNMT3B
Specificity	Recognizes endogenous levels of DNMT3B protein
Antibody Type	Primary antibody,Recombinant
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within human DNMT3B protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography
Molecular Weight	Predicted:96 kD; Observed: 96 kD
Form/Buffer	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Alternative Names	DNA (cytosine-5)-methyltransferase 3B; Dnmt3b; DNA methyltransferase HsallIB; DNA MTase HsallIB; M.HsallIB
Gene Symbol	DNMT3B
Entrez Gene	1789(Human);13436(Mouse);
SwissProt	Q9UBC3(Human);O88509(Mouse);

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

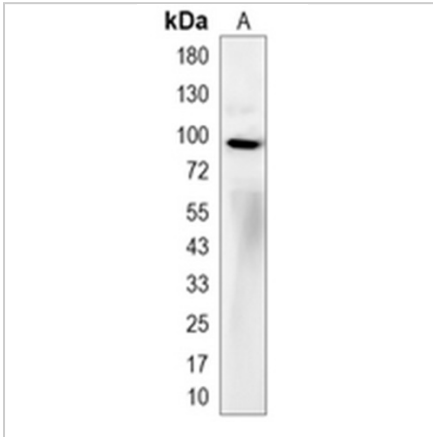
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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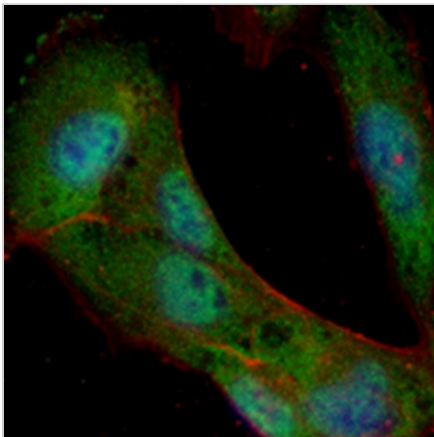
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Western blot analysis of DNMT3B expression in A431 (A) whole cell lysates. (Predicted band size: 96 kD; Observed band size: 96 kD)



Immunofluorescent analysis of DNMT3B staining in A431 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AREX Flour 488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX Flour was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: [www.arexbio.com](http://www.arexbio.com)