

Mouse anti-Mouse, Human DNMT2 Monoclonal Antibody | anti-DNMT2 antibody

Monoclonal Antibody to DNMT2 (Clone: ABM1H70)

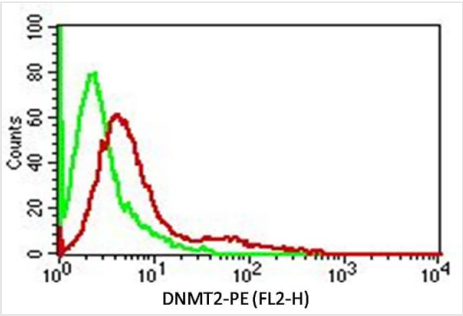
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78267	Mouse	Mouse, Human	Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

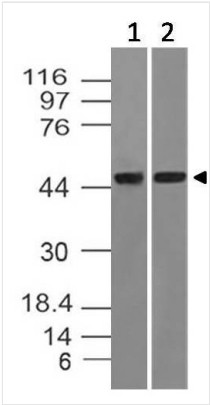
DNMT2; Monoclonal Antibody; Monoclonal Antibody to DNMT2 (Clone: ABM1H70); HCG23994; isoform CRA_a; cDNA FLJ76302; Highly similar to Homo sapiens DNA (cytosine-5-)-methyltransferase 2 (DNMT2); tRNA aspartic acid methyltransferase 1 variant 3; anti-DNMT2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Mouse, Human
Clonality	Monoclonal
Isotype	IgG1 Kappa
Clone Number	ABM1H70
Purity/Purification	Purified Protein G Chromatography
Form/Format	25 ug in 50 ul/100 ug in 200 ul PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Sequence Length	391
Applicable Applications for anti-DNMT2 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry)
Immunogen Information	A partial length recombinant protein from DNMT2 was used as the immunogen for this antibody.
Antigen	DNMT2
Preparation and Storage	Store the antibody at 4 degree C, stable for 6 months. For long-term storage, store at -20 degree C. Avoid repeated freeze and thaw cycles.



FCM/FACS (Flow Cytometry)
Fig-2: Intracellular Flow analysis of DNMT2 antibody in Hela cells using 0.5 ug/ 10⁶ cells of anti-DNMT2 antibody (ABM1H70). Green represents isotype control; red represents anti-DNMT 2 antibody. Goat anti-mouse PE conjugate was used as secondary antibody. (Cells were fixed with 4% paraformaldehyde for 10 min and washed with PBS by centrifuging at 1100 for 5 min followed by permeabilization for 20 min and washed again as mentioned above. Then cell were incubated with primary antibody for 45 min. and after washing the cells twice in PBS, incubated with conjugated secondary antibody for 30 min. Data acquisition was done after washing twice with PBS as mentioned above).



WB (Western Blot)
Fig-1: Western blot analysis of DNMT2. Anti-DNMTc2 antibody (Clone: ABM1H70) was used at 4 ug/ml on Jurkat and mouse embryonic liver lysates.

ADDITIONAL INFORMATION

Related Product Information for anti-DNMT2 antibody	DNMT2, also known as tRNA-aspartic acid methyltransferase 1 (TRDMT1), is highly conserved cytosine-C5 methyltransferase that introduces the C38 methylation of tRNAAsp in many species, including lower eukaryotes, plants, insects, and humans. DNMT2 contains all 10 sequence motifs that are conserved among m5C MTases, including the consensus S-adenosyl-L-methionine-binding motifs and the active site ProCys dipeptide. It is a relatively small protein of 391 amino acids and lacks the large N-terminal domains present in the DNMT1 and DNMT3 families. DNMT2 is ubiquitously expressed with multiple mRNA species in most human and mouse adult tissues. It is variably expressed in human cancer cell lines.
Product Categories/Family for anti-DNMT2 antibody	Antibodies; DNA methylation and Repair

NCBI AND UNIPROT INFORMATION

NCBI GI #	74748776
NCBI GeneID	1787
UniProt Accession #	Q6ICS7; O14717
Molecular Weight	44,597 Da
NCBI Official Full Name	DNMT2 protein
NCBI Official Synonym Full Names	tRNA aspartic acid methyltransferase 1
NCBI Official Symbol	TRDMT1
NCBI Official Synonym Symbols	DMNT2; DNMT2; PUMET; RNMT1; MHSIIP
NCBI Protein Information	tRNA (cytosine(38)-C(5))-methyltransferase
UniProt Protein Name	DNMT2 protein
UniProt Gene Name	DNMT2

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.