

Mouse DNA Adenine Methylase Monoclonal Antibody | anti-dam antibody

DNA Adenine Methylase

CATALOG # AAA60488	HOST Mouse	REACTIVITY Gram Negative Bacteria	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

DNA Adenine Methylase; Monoclonal Antibody; DAM; DNA adenine methyltransferase; Deoxyadenosyl-methyltransferase; anti-dam antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Gram Negative Bacteria
Clonality	Monoclonal
Isotype	IgG1
Clone Number	RB1
Purity/Purification	Protein A/G Chromatography
Form/Format	Provided as solution in phosphate buffered saline with 0.08% sodium azide
Sequence Length	278
Applicable Applications for anti-dam antibody	WB (Western Blot)
Immunogen	Recombinant DNA Adenine Methylase protein.
Source	Hybridoma obtained after immunization of mice with recombinant DNA Adenine Methylase protein.
Preparation and Storage	Store at -20°C. Aliquot to avoid freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for anti-dam antibody	DNA adenine methylase (DAM) is an enzyme that methylates adenine residues in the 4-base pair DNA sequence, GATC. This methylation reaction has been shown to be crucial in a variety of cellular processes in bacteria. These include (i) the control of initiation of DNA replication (GATC occurs 11 times in the highly conserved bacterial origin of replication sequence); (ii) methyl-directed mismatch repair; (iii) control of transposition of certain transposable DNA elements; and (iv) control of gene expression. With regard to gene expression, the recent report by Heithoff et al. (Science; 284:967-970; 1999) showed that the deletion of the DAM gene rendered Salmonella typhimurium totally avirulent. Antibody can be used for Western blotting (1-5 µg/ml). Other applications not yet evaluated. Optimal concentration should be evaluated by serial dilutions. The antibody reacts with the recombinant protein as produced by E.coli. We have no data to support its reactivity with wild type DAM protein.
Product Categories/Family for anti-dam antibody	Monoclonal Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	16131265
NCBI GeneID	947893
NCBI Accession #	NP_417846.1

NCBI GenBank Nucleotide #	NC_000913.2
UniProt Accession #	P0AEE8 ; P00475 ; Q2M752
NCBI Official Full Name	DNA adenine methyltransferase
NCBI Official Symbol	dam
NCBI Official Synonym Symbols	ECK3374; JW3350
NCBI Protein Information	DNA adenine methyltransferase
UniProt Protein Name	DNA adenine methylase
UniProt Gene Name	dam
UniProt Entry Name	DMA_ECOLI

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/dna-adenine-methylase-antibody-clone-rb1-western-blot-elisa/60488>