

Product datasheet for **AM05338PU-N**

dam Mouse Monoclonal Antibody [Clone ID: RB1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	RB1
Applications:	WB
Recommended Dilution:	Western Blot: 5-10 µg/ml.
Reactivity:	Bacteria
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant DNA Adenine Methylase protein.
Specificity:	Gram Negative Bacteria.
Formulation:	PBS containing 0.08% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	POAEE8
Background:	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.
Synonyms:	DAM



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