

Product datasheet for **TA342255**

Dnmt1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-Dnmt1 antibody: synthetic peptide directed towards the N terminal of mouse Dnmt1. Synthetic peptide located within the following region: SSVATRRTRQTITAHFTKGPTKRKPKEESEEGNSAESAAEERDQDKKR
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	183 kDa
Gene Name:	DNA methyltransferase (cytosine-5) 1
Database Link:	NP_034196 Entrez Gene 13433 Mouse P13864



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Background:

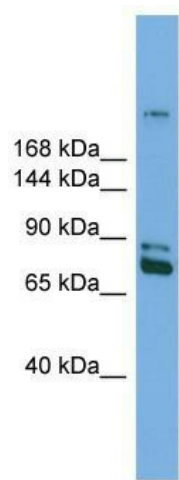
Dnmt1 methylates CpG residues. Dnmt1 preferentially methylates hemimethylated DNA. Dnmt1 associates with DNA replication sites in S phase maintaining the methylation pattern in the newly synthesized strand, that is essential for epigenetic inheritance. Dnmt1 associates with chromatin during G2 and M phases to maintain DNA methylation independently of replication. It is responsible for maintaining methylation patterns established in development. DNA methylation is coordinated with methylation of histones. Dnmt1 mediates transcriptional repression by direct binding to HDAC2. In association with DNMT3B and via the recruitment of CTCFL/BORIS, Dnmt1 is involved in activation of BAG1 gene expression by modulating dimethylation of promoter histone H3 at H3K4 and H3K9.

Synonyms:

AIM; CXXC9; DNMT; FLJ16293; M.Hsal; MCMT; MGC104992

Note:

Immunogen Sequence Homology: Mouse: 100%

Product images:

WB Suggested Anti-Dnmt1 Antibody Titration:
0.2-1 ug/ml; ELISA Titer: 1:62500; Positive Control:
Mouse Lung