

For Research Use Only

# DNMT1 Recombinant antibody

Catalog Number: 82678-2-RR



## Basic Information

<b>Catalog Number:</b> 82678-2-RR	<b>GenBank Accession Number:</b> BC126227	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1786	<b>CloneNo.:</b> 240302E2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P26358	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG	<b>Full Name:</b> DNA (cytosine-5-)-methyltransferase 1	
<b>Immunogen Catalog Number:</b> AG29479	<b>Calculated MW:</b> 1632 aa, 185 kDa	
	<b>Observed MW:</b> 200 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), ELISA	<b>Positive Controls:</b> WB : HepG2 cells, HEK-293T cells, PC-12 cells
<b>Species Specificity:</b> human, rat	

## Background Information

DNA methylation is a major epigenetic modification that regulates gene expression. DNMT1, the maintenance DNA methylation enzyme, is the primary enzyme responsible for copying methylation patterns after DNA replication. DNMT1 is required for X chromosome inactivation, imprinting, genomic methylation, and proper embryonic development. Overexpression of DNMT1 has been reported in various cancers. (PMID: 10753866)

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

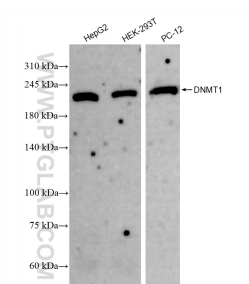
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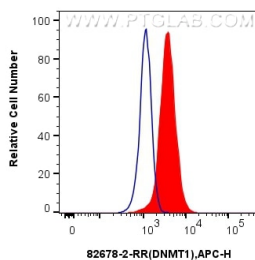
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82678-2-RR (DNMT1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug DNMT1 Recombinant antibody (82678-2-RR, Clone:240302E2) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).