

For Research Use Only

# DNMT1 Monoclonal antibody

Catalog Number: 68485-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 68485-1-Ig	<b>GenBank Accession Number:</b> BC126227	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1786	<b>CloneNo.:</b> 2G5C5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P26358	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG1	<b>Full Name:</b> DNA (cytosine-5-)-methyltransferase 1	
<b>Immunogen Catalog Number:</b> AG19116	<b>Calculated MW:</b> 1632 aa, 185 kDa	
	<b>Observed MW:</b> 180-200 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : A549 cells, LNCaP cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells
<b>Cited Applications:</b> WB, IF	
<b>Species Specificity:</b> Human, Mouse, Rat	
<b>Cited Species:</b> human	

## 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. DNMT1 exists some isoforms with MW 184 kDa and 145 kDa. (PMID: 10753866)

## Notable Publications

Author	Pubmed ID	Journal	Application
Jianjun Wu	37972696	Gene	WB,IF

## Storage

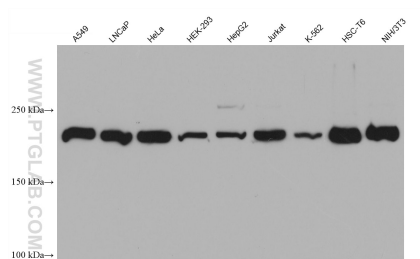
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68485-1-Ig (DNMT1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.