

DNMT1 Recombinant antibody

Catalog Number: 82678-2-RR

Basic Information

Catalog Number:

82678-2-RR

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG29479

GenBank Accession Number:

BC126227

GeneID (NCBI):

1786

UNIPROT ID:

P26358

Full Name:

DNA (cytosine-5-)-methyltransferase

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Calculated MW:

1632 aa, 185 kDa

Observed MW:

200 kDa

Purification Method:

Protein A purification

CloneNo.:

240302E2

Recommended Dilutions:

WB 1:2000-1:10000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human, rat

Positive Controls:

WB : HepG2 cells, HEK-293T cells, PC-12 cells

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:

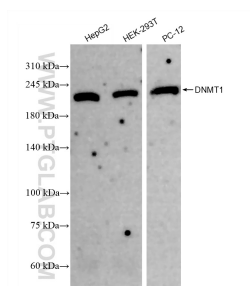
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

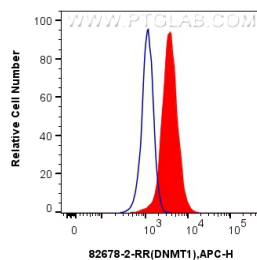
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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.



1x10⁶ 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).