

**Human DNA (cytosine-5)
Methyltransferase
(Dnmt1) Amino-terminal Ab**



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M0231S 001131015101

M0231S

0.05 ml Lot: **0011310**

Store at -20°C Exp: **10/15**

Description: Amino terminal (N-terminal) of human Dnmt1 has been shown to bind proliferating cell nuclear antigen (PCNA) and histone deacetylase (1,2). Deletion of this region stimulates DNA methylation (3). In neoplastic transformed cells methylation pattern is abnormal, leading to the speculation that Dnmt1 may be involved in such processes (4).

Supplied in: 10 mM Sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol.

Dnmt1 Amino-terminal Antibody: Polyclonal antibodies are produced by immunizing rabbit with a KLH coupled synthetic peptide corresponding to residues in the N-terminal region of human Dnmt1. The antibodies are purified in a protein A column.

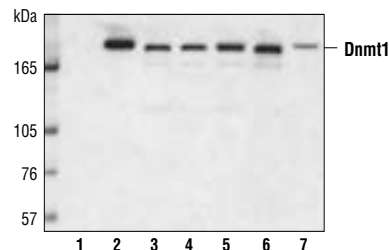
Species Cross-reactivity: human, monkey

Sensitivity: Human DNA (cytosine-5) Methyltransferase (Dnmt1) Amino-terminal Antibody detects less than 10 ng of Dnmt1 in the cell extract using anti-rabbit Phototope-HRP Western Detection Kit (available from Cell Signaling Technology).

Applications: Western blotting, immunocytochemistry and immunoprecipitation.

Recommended Antibody Dilutions:

Western blotting: 1:2000



Western analysis of cell extracts; Lane 1: Sf9 cells, Lane 2: Human DNA (cytosine-5) Methyltransferase expressing Sf9 cells, Lane 3: 293 cells, Lane 4: HeLa cells, Lane 5: Jurkat cells, Lane 6: COS cells, Lane 7: Mouse DNA (cytosine-5) Methyltransferase expressing Sf9 cells, using Human DNA (cytosine-5) Methyltransferase Amino-Terminal Antibody.

References:

1. Chuang, L.S. et al. (1997) *Science* 277, 1996–2000.
2. Fuks, F. et al. (2000) *Nat. Genet.* 24, 88–91.
3. Bestor, T.H. (1992) *EMBO J.* 11, 2611–2617.
4. Schmutte, C. et al. (1998) *Biol. Chem.* 379, 377–388.

CERTIFICATE OF ANALYSIS

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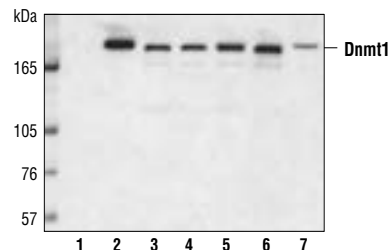
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