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Datasheet for ABIN5576742  
**anti-DNMT1 antibody (AA 1-248)**

3 Images

Overview

Quantity:	50 µg
Target:	DNMT1
Binding Specificity:	AA 1-248
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DNMT1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Purpose:	Rabbit polyclonal antibody raised against partial recombinant Dnmt1.
Immunogen:	Recombinant protein corresponding to amino acids 1-248 mouse Dnmt1.
Specificity:	This antibody reacts with Dnmt1.
Cross-Reactivity:	Frog, Human, Mouse

Target Details

Target:	DNMT1
Alternative Name:	Dnmt1 ( <a href="#">DNMT1 Products</a> )
Background:	Full Gene Name: DNA methyltransferase (cytosine-5) 1 Synonyms: Cxxc9,Dnmt,Dnmt1o,MTase,Met-1,Met1,MommeD2

## Target Details

Gene ID: 13433

Pathways: [SARS-CoV-2 Protein Interactome](#), [The Global Phosphorylation Landscape of SARS-CoV-2 Infection](#)

## Application Details

Application Notes: Immunoprecipitation (Especially good for native form of Dnmt1 and useful for analysis of the protein complex containing Dnmt1. One ug of the antibody can precipitates 0.5~1.0 µg of Dnmt1.)  
Indirect immuno-fluorescence staining (Excellent. Low background)

Restrictions: For Research Use only

## Handling

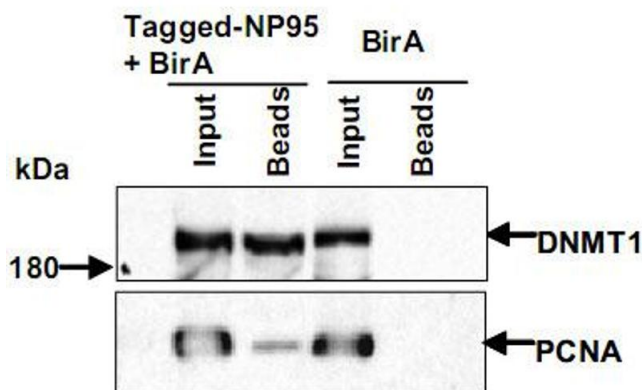
Format: Liquid

Buffer: In PBS (50 % glycerol).

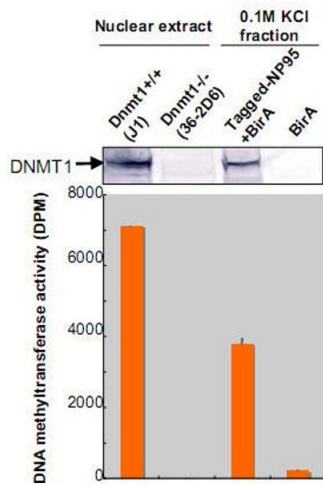
Storage: -20 °C

Storage Comment: Store at -20°C. Do not freeze.

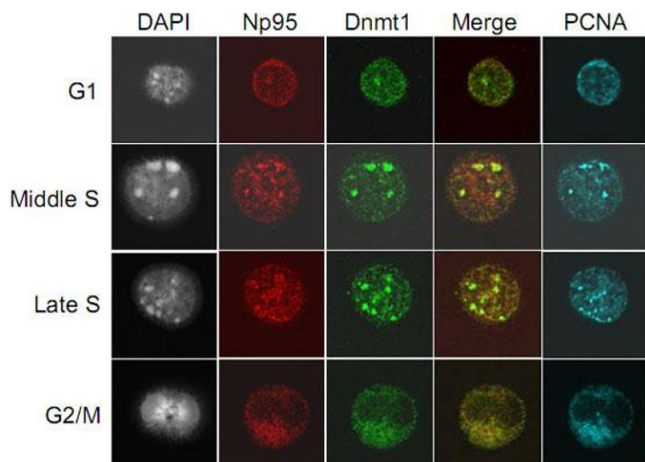
## Images



**Image 1.** Association of Np95 with Dnmt1 and PcnA in HeLa cell nuclear extracts. Human NP95 was tagged by biotin-binding domain and stably expressed in HeLa cells together with the E. coli BirA biotin ligase gene. Biotylated Np95 was captured by streptavidin beads. The captured proteins were eluted from the beads and analyzed by western blotting using antibodies against Dnmt1 and PcnA. ( The data were kindly provided by Dr. M. Muto of Riken Research Center for Allergy and Immunology ).



**Image 2.** Catalytic activity of NP95 associated Dnmt1 in HeLa cells. The presence of Dnmt1 in the NP95 complexes was confirmed by western blot and the DNA methyltransferase activity of the extracts was measured (The data were kindly provided by Dr. M. Muto of Riken Research Center for Allergy and Immunology).



### Immunofluorescence

**Image 3.** Subnuclear localization of Dnmt1 (green), Np95 (red) and PcnA (blue) in mouse embryonic stem cells (E14) during cell-cycle progression (bottom). Merged images for Np95 and Dnmt1 are shown. Profile of DNA content in exponentially growing ECSs is shown (top). (The data were kindly provided by Dr. M. Muto of Riken Research Center for Allergy and Immunology).