

## Datasheet for ABIN6699781 **DNMT1 Protein (GST tag)**



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### Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 20 µg  |
| Target:                       | DNMT1  |
| Origin:                       | Mouse  |
| Source:                       | Insect cells (Sf9)                           |
| Protein Type:                 | Recombinant                                  |
| Purification tag / Conjugate: | This DNMT1 protein is labelled with GST tag. |
| Application:                  | Western Blotting (WB)                        |

### Product Details

|               |  |
|---------------|--|
| Purpose:      | DNMT1 recombinant protein-GST fusion protein   |
| Purification: | Recombinant mouse DNMT1 (766-end) was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >70% by densitometry. |
| Purity:       | >70%   |

### Target Details

|                   |  |
|-------------------|--|
| Target:           | DNMT1  |
| Alternative Name: | DNMT1 ( <a href="#">DNMT1 Products</a> )   |
| Background:       | Synonyms: Dnmt, MCMT, Cxxc9, MTase, Met-1, Dnmt1o, m.Mmul, Met1, MommeD2, Cytosine-specific methyltransferase, DNA (cytosine-5)-methyltransferase 1, CXXC-type zinc finger protein 9, DNA methyltransferase Hsa1 |

## Target Details

Background: DNMT1 has a role in the establishment and regulation of tissue-specific patterns of methylated cytosine residues. Aberrant methylation patterns are associated with certain human tumors and developmental abnormalities (1). DNMT1 enzyme is crucial for stable expression and function in vivo (2). DNMT1 is essential for maintenance of DNA methylation and the interaction of DNMT1 with the replication machinery is not strictly necessary for maintenance of DNA methylation, but improves its efficiency. DNMT1 is necessary and sufficient to maintain global methylation and aberrant CpG island methylation in human cancer cells. DNMT1 Protein is ideal for investigators involved in Signaling Proteins, Acetyl/Methyltransferase Proteins, Apoptosis/Autophagy, Cancer, Cell Cycle, and Neurobiology research.

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

## Application Details

Application Notes: Western\_Blot\_Dilution: User Optimized  
Application\_Note: DNMT1 Protein is suitable for use in Western Blot. Expect a band approximately ~ 94 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

## Handling

|                  |   |
|------------------|---|
| Format:          | Liquid  |
| Concentration:   | 0.05 µg/µL  |
| Buffer:          | DNMT1 Protein is stored in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.   |
| Storage:         | -80 °C  |
| Storage Comment: | Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |
| Expiry Date:     | 12 months   |