

## Monoclonal Anti-mouse GLP/Eu-HMTase 1 Antibody

### ORDERING INFORMATION

**Catalog Number:** PP-B0422-00

**Clone:** B0422

**GenBank:** AB205007

**Ig Class:** mouse IgG<sub>2A</sub>

**Volume:** 100 µL

**Concentration:** 1 mg/mL

**Formulation:** A liquid formulation in physiologic saline with 0.1% NaN<sub>3</sub>

**Storage:** ≤ -20 °C

**Specificity:** mouse GLP

**Applications:** Western Blot  
Direct ELISA  
Immunohistochemistry  
Immunoprecipitation

### Description

Histone H3 Lys 9 (H3-K9) methylation is a crucial epigenetic marker for transcriptional silencing. G9a is the major mammalian H3-K9 methyltransferase that targets euchromatic regions and is essential for murine embryogenesis. There is a single G9a-related methyltransferase in mammals, called GLP/Eu-HMTase1.

### Preparation

Produced in BALB/c mouse ascites after inoculation with a hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with recombinant mouse GLP (amino acids 134 - 234). The IgG fraction of the mouse ascites was purified by ammonium sulfate fractionation.

### Formulation

A liquid formulation in physiologic saline with 0.1% NaN<sub>3</sub>.

### Storage

This antibody is stable for greater than six months when held at -20 °C in a **manual defrost freezer** or at -70 °C. Upon thawing, the antibody can be stored at 2-8 °C for at least 1 month without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### Specificity

This antibody specifically recognizes mouse GLP and cross-reacts with human GLP. Not yet tested in other species.

### Applications

**Western Blot** - This antibody can be used at 0.5 µg/mL with the appropriate secondary reagents to detect mouse GLP.

**Direct ELISA** - This antibody can be used at 0.1 µg/mL with the appropriate secondary reagents to detect mouse GLP.

**Immunohistochemistry** - This antibody can be used at 5 µg/mL with the appropriate secondary reagents to detect mouse GLP.

**Immunoprecipitation** - Optimal dilutions should be determined by each laboratory.

**Optimal dilutions should be determined by each laboratory for each application.**

**Caution:** Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.



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8/16