Monoclonal Anti-mouse G9a/Eu-HMTase 2 Antibody

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 mouse embryogenesis.

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 G9a (amino acids 15 - 114). The IgG fraction of the mouse ascites was purified by ammonium sulfate purification.

Formulation
A liquid formulation in physiologic saline with 0.1% NaN₃.

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 G9a and cross-reacts with human G9a. 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 G9a.
- Direct ELISA - This antibody can be used at 0.1 µg/mL with the appropriate secondary reagents to detect mouse G9a.
- Immunohistochemistry - This antibody can be used at 5 µg/mL with the appropriate secondary reagents to detect mouse G9a.
- Immunoprecipitation - Optimal dilutions should be determined by each laboratory.

Reference

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.