

Anti mouse G9a /Ehmt2 mouse monoclonal antibody

G9a: Euchromatic histone-lysine N-methyltransferase 2

Code No	PP-A8620A-00
Clone No.	A8620A
Lot.	A-2
Concentration	1 mg/mL
Volume	100 uL
Ig Class	G2a
Description	Histone H3 Lys 9 (H3-K9) methylation is a crucial epigenetic mark for transcriptional silencing. G9a is the major mammalian H3-K9 methyltransferase that targets euchromatic regions and is essential for murine embryogenesis.
Genbank	AB077209
Origin	Produced in BALB/c mouse ascites after inoculation with hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with Baculovirus-expressed recombinant mouse G9a (15-114aa) .
Epitope	
Specificity	This antibody specifically recognizes mouse G9a and cross reacts with human G9a. Not yet tested in other species.
Purification	Ammonium sulfate fractionation.
Formulation	Physiologic saline with 0.1 % NaN ₃ .

Application / Recommended Concentration

In order to obtain the best results, optimal working dilutions should be determined by each individual user.

Western Blot 0.5 ug/mL

Non reducing Western Blot Not yet tested

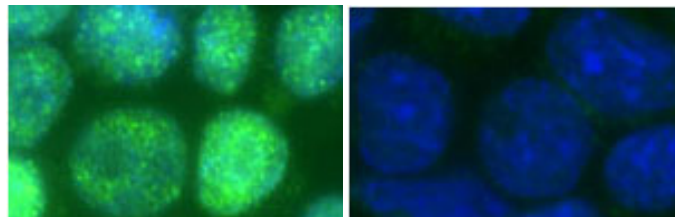
ELISA 0.1 ug/mL

Immunoprecipitation Decide by use

Supershift Assay Not yet tested

Chromatin immunoprecipitation Not yet tested

Immunohistochemistry 5 ug/mL



WT mouse
ES cell
(Positive)

G9a KO mouse
ES cell
(Negative)

Storage Store at 2 - 8 °C up to one month. For long-term storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

Reference Tachibana M. *et al.* Genes Dev, 2005; 19(7): 815-26

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

FOR RESEARCH ONLY. NOT FOR USE IN HUMANS.

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MADE IN JAPAN

July 1, 2023