

## Anti mouse G9a /Ehmt2 mouse monoclonal antibody

G9a: Euchromatic histone-lysine N-methyltransferase 2

<b>Code No</b>	PP-A8620A-00 old No. 2ZA8620AH
<b>Clone No.</b>	A8620A
<b>Lot.</b>	A-2
<b>Concentration</b>	1 mg/mL
<b>Volume</b>	100 uL
<b>Ig Class</b>	G2a
<b>Description</b>	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.
<b>Nomenclature</b>	—
<b>Genbank</b>	AB077209
<b>Origin</b>	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) .
<b>Specificity</b>	This antibody specifically recognizes mouse G9a and cross reacts with human G9a. Not yet tested in other species.
<b>Purification</b>	Ammonium sulfate fractionation
<b>Formulation</b>	Physiological saline with 0.1% NaN <sub>3</sub> as a preservative.

### 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 tested

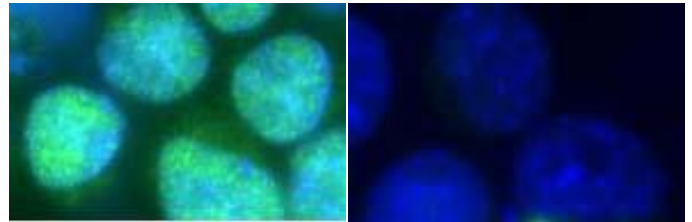
ELISA 0.1 ug/mL

Immunoprecipitation Decide by use

Supershift Assay Not 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, 1; 19(7): 815-26, 2005.

**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**

Apr 23, 2008