

**(Mouse) Ehmt2 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21305c**

**Specification**

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**(Mouse) Ehmt2 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9Z148</a>
Reactivity	Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	138039

**(Mouse) Ehmt2 Antibody (Center) - Additional Information**

**Gene ID** 110147

**Other Names**

Histone-lysine N-methyltransferase EHMT2, 211-, Euchromatic histone-lysine N-methyltransferase 2, HLA-B-associated transcript 8, Histone H3-K9 methyltransferase 3, H3-K9-HMTase 3, Protein G9a, Ehmt2, Bat8, G9a, Ng36

**Target/Specificity**

This Mouse Ehmt2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 589-623 amino acids from the Central region of Mouse Ehmt2.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

(Mouse) Ehmt2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**(Mouse) Ehmt2 Antibody (Center) - Protein Information**

**Name** Ehmt2

**Synonyms** Bat8, G9a, Ng36

**Function** Histone methyltransferase that specifically mono- and dimethylates 'Lys-9' of histone H3 (H3K9me1 and H3K9me2, respectively) in euchromatin. H3K9me represents a specific tag for epigenetic transcriptional repression by recruiting HP1 proteins to methylated histones. Also mediates monomethylation of 'Lys-56' of histone H3 (H3K56me1) in G1 phase, leading to promote interaction between histone H3 and PCNA and regulating DNA replication. Also weakly methylates 'Lys-27' of histone H3 (H3K27me). Also required for DNA methylation, the histone methyltransferase activity is not required for DNA methylation, suggesting that these 2 activities function independently. Probably targeted to histone H3 by different DNA-binding proteins like E2F6, MGA, MAX and/or DP1. May also methylate histone H1. In addition to the histone methyltransferase activity, also methylates non-histone proteins: mediates dimethylation of 'Lys-373' of p53/TP53. Also methylates CDYL, WIZ, ACIN1, DNMT1, HDAC1, ERCC6, KLF12 and itself.

#### Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q96KQ7}. Chromosome {ECO:0000250|UniProtKB:Q96KQ7}. Note=Almost excluded from nucleoli. Associates with euchromatic regions (By similarity). Does not associate with heterochromatin (By similarity) {ECO:0000250|UniProtKB:Q96KQ7}

#### Tissue Location

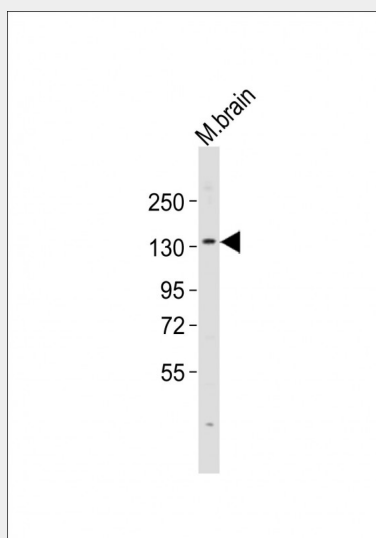
Ubiquitous..

#### (Mouse) Ehmt2 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### (Mouse) Ehmt2 Antibody (Center) - Images



Anti-Ehmt2 Antibody (Center) at 1:1000 dilution + mouse brain lysates Lysates/proteins at 20 µg

per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution  
Predicted band size : 138 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

#### **(Mouse) Ehmt2 Antibody (Center) - Background**

Histone methyltransferase that specifically mono- and dimethylates 'Lys-9' of histone H3 (H3K9me1 and H3K9me2, respectively) in euchromatin. H3K9me represents a specific tag for epigenetic transcriptional repression by recruiting HP1 proteins to methylated histones. Also mediates monomethylation of 'Lys-56' of histone H3 (H3K56me1) in G1 phase, leading to promote interaction between histone H3 and PCNA and regulating DNA replication. Also weakly methylates 'Lys-27' of histone H3 (H3K27me). Also required for DNA methylation, the histone methyltransferase activity is not required for DNA methylation, suggesting that these 2 activities function independently. Probably targeted to histone H3 by different DNA-binding proteins like E2F6, MGA, MAX and/or DP1. May also methylate histone H1. In addition to the histone methyltransferase activity, also methylates non-histone proteins: mediates dimethylation of 'Lys-373' of p53/TP53. Also methylates CDYL, WIZ, ACIN1, DNMT1, HDAC1, ERCC6, KLF12 and itself.

#### **(Mouse) Ehmt2 Antibody (Center) - References**

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Xie T.,et al.Genome Res. 13:2621-2636(2003).  
Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).  
Brown S.E.,et al.Mamm. Genome 12:916-924(2001).  
Tachibana M.,et al.J. Biol. Chem. 276:25309-25317(2001).