

**EHMT2 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5429**

**Specification**

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**EHMT2 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O96KQ7</a>
Other Accession	<a href="#">O9Z148</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=132,129;M=138;R=138 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**EHMT2 Antibody (Center) - Additional Information**

**Gene ID** 10919

**Antigen Region**  
361-395

**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, Lysine N-methyltransferase 1C, Protein G9a, EHMT2, BAT8, C6orf30, G9A, KMT1C, NG36

**Dilution**

WB~~1:1000

**Target/Specificity**

This EHMT2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 361-395 amino acids from the Central region of human EHMT2.

**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**

EHMT2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**EHMT2 Antibody (Center) - Protein Information**

**Name** EHMT2**Synonyms** BAT8, C6orf30, G9A, KMT1C, 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. Chromosome. Note=Associates with euchromatic regions (PubMed:11316813). Does not associate with heterochromatin (PubMed:11316813).

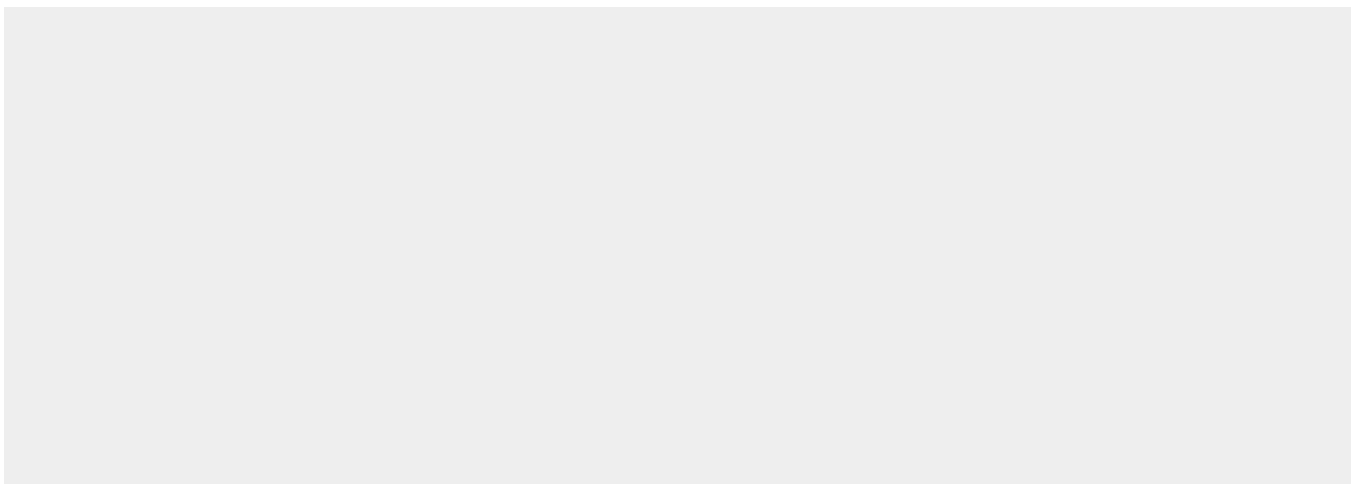
**Tissue Location**

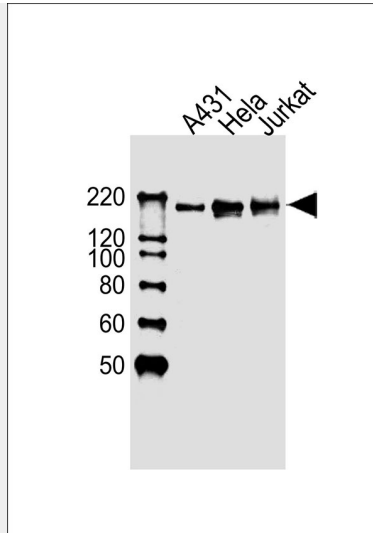
Expressed in all tissues examined, with high levels in fetal liver, thymus, lymph node, spleen and peripheral blood leukocytes and lower level in bone marrow

**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](#)

**EHMT2 Antibody (Center) - Images**



All lanes : Anti-EHMT2 Antibody (Center) at 1:1000 dilution Lane 1: A431 whole cell lysates Lane 2: HeLa whole cell lysates Lane 3: Jurkat whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 132 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

#### **EHMT2 Antibody (Center) - Background**

Histone methyltransferase that specifically mono- and dimethylates &apos;Lys-9&apos; 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 &apos;Lys-56&apos; of histone H3 (H3K56me1) in G1 phase, leading to promote interaction between histone H3 and PCNA and regulating DNA replication. Also weakly methylates &apos;Lys-27&apos; 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 &apos;Lys- 373&apos; of p53/TP53. Also methylates CDYL, WIZ, ACIN1, DNMT1, HDAC1, ERCC6, KLF12 and itself.

#### **EHMT2 Antibody (Center) - References**

- Brown S.E.,et al.Mamm. Genome 12:916-924(2001).
- Ota T.,et al.Nat. Genet. 36:40-45(2004).
- Xie T.,et al.Genome Res. 13:2621-2636(2003).
- Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
- Hirakawa M.,et al.Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.