

KD-Validated Anti-EHMT2/G9A Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI2359**Specification****KD-Validated Anti-EHMT2/G9A Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	Q96KQ7
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 132 kDa; Observed, 160-170 kDa
Gene Name	KDa KDa
Aliases	EHMT2 KMT1C; G9A; C6orf3; BAT8; Euchromatic Histone-Lysine N-Methyltransferase; Histone-Lysine N-Methyltransferase EHMT2; Histone H3-K9 Methyltransferase; HLA-B Associated Transcript 8; Lysine N-Methyltransferase 1C; H3-K9-HMTase; Em:AF134726.3; NG36/G9a; NG36; Histone-Lysine N-Methyltransferase, H3 Lysine-9 Specific 3; Chromosome 6 Open Reading Frame 30; Ankyrin Repeat-Containing Protein; G9A Histone Methyltransferase; HLA-B-Associated Transcript 8; EC 2.1.1.367; Protein G9a; EC 2.1.1.-; GAT8
Immunogen	A synthesized peptide derived from human EHMT2/G9A

KD-Validated Anti-EHMT2/G9A Rabbit Monoclonal Antibody - Additional Information

Gene ID	10919
Other Names	
Histone-lysine N-methyltransferase EHMT2, 2.1.1.-, 2.1.1.367, 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	

KD-Validated Anti-EHMT2/G9A Rabbit Monoclonal Antibody - 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

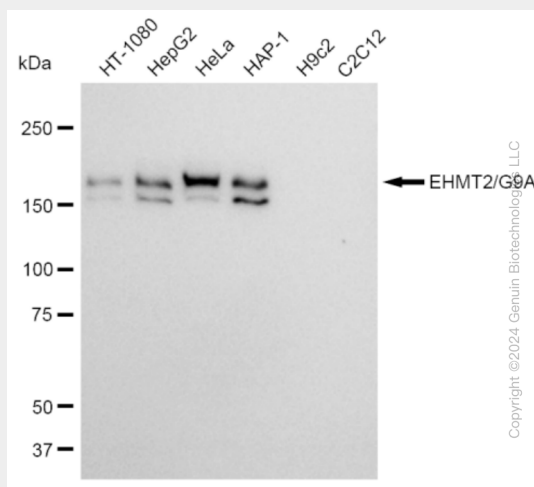
Expressed in all tissues examined, with high levels in fetal liver, thymus, lymph node, spleen and peripheral blood leukocytes and lower level in bone marrow

KD-Validated Anti-EHMT2/G9A Rabbit Monoclonal Antibody - Protocols

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

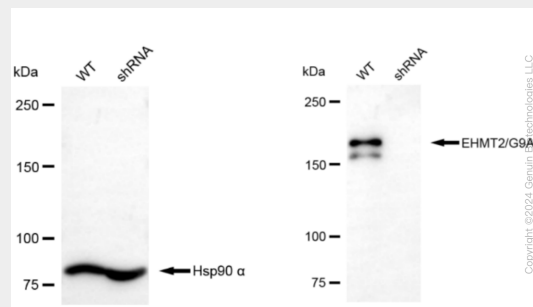
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-EHMT2/G9A Rabbit Monoclonal Antibody - Images

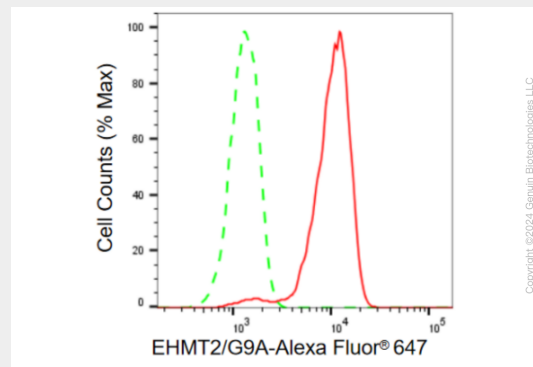


Western blotting analysis using anti-EHMT2/G9A antibody (Cat#AGI2359). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-EHMT2/G9A antibody (Cat#AGI2359, 1:10,000) and HRP-conjugated goat anti-rabbit

secondary antibody respectively.



Western blotting analysis using anti-EHMT2/G9A antibody (Cat#AGI2359).EHMT2/G9A expression in wild type (WT) and EHMT2/G9A shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-EHMT2/G9A antibody (Cat#AGI2359, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of EHMT2/G9A expression in HeLa cells using EHMT2/G9A antibody (Cat#AGI2359, 1:2,000). Green, isotype control; red, EHMT2/G9A.