

EHMT2 Polyclonal Antibody

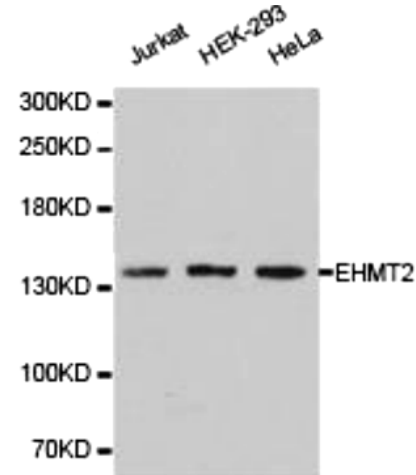
ALTERNATE NAMES:	EHMT2, BAT8, C6orf30, DKFZp686H08213, FLJ35547, G9A, KMT1C, NG36, NG3
6/G9a ;	
CATALOG #:	6152-100
AMOUNT:	100 µg
HOST:	Rabbit
ISOTYPE:	IgG
IMMUNOGEN:	Recombinant protein of human EHMT2
PURIFICATION:	Affinity purified
MOLECULAR WEIGHT:	132 kDa
FORM:	Liquid
FORMULATION:	100 µg of antibody in 100 µl PBS containing 0.02% sodium azide, 50% glycerol, pH 7.3
SPECIES REACTIVITY:	Human, Mouse, Rat
STORAGE CONDITIONS:	Can be stored at -20°C or -80°C. Avoid repeated freeze/thaw cycles.

DESCRIPTION: G9a, also known as Euchromatic histone-lysine N-methyltransferase 2 (EHMT2), is a member of a family of histone lysine methyltransferases. Recombinant G9a can mono-, di- and tri-methylate histone H3 on Lys9 and Lys27 in vitro. However, in vivo G9a forms a complex with GLP, a G9a-related histone methyltransferase, and together these proteins function as the major euchromatic histone H3 Lys9 mono- and di-methyltransferases, creating transcriptionally repressive marks that facilitate gene silencing. G9a methylates itself on Lys165, a modification that regulates the association of HP1 repressor proteins with the G9a/GLP complex. The G9a/GLP complex also contains Wiz, a zinc finger protein that is required for G9a/GLP heterodimerization and complex stability. Wiz contains two CtBP co-repressor binding sites, which mediate the association of the G9a/GLP with the CtBP co-repressor complex. In addition, G9a and GLP are components of other large transcriptional corepressor complexes, such as those involving E2F6 and CDP/cut. G9a interacts with DNMT1, and both proteins are required for methylation of DNA and histone H3 (Lys9) at replication foci, providing a functional link between histone H3 Lys9 and CpG methylation during DNA replication. G9a activity is critical for meiotic prophase progression, as mutant mice deficient in germ line G9a show a large loss of mature gametes. In addition, G9a facilitates increased global levels of di-methyl histone H3 (Lys9) during hypoxic stress and increased G9a expression is associated with hepatocellular carcinoma.

SPECIFICITY: Cross-reacts with human, mouse and rat samples.

APPLICATION: Western blot: 1:500 – 1:2000, IHC: 1:50 – 1:200.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



WB of various cell extract with EHMT2 pAb.

RELATED PRODUCTS:

- Methyl Lysine (Biotin) Antibody (Cat. No. 6124-50)
- Acetyl Lysine (Biotin) Antibody (Cat. No. 6125-50)
- EZH1 Antibody (Cat. No. 6123-50)
- EZH2 Antibody (Cat. No. 3242-100)
- 3-Deazaneplanocin (Cat. No. 2060-250, -1000)
- GSK343 (Cat. No. 2281-1, -5)
- GSK126 (Cat. No. 2282-1, -5)
- BIX 01294 (Cat. No. 1678-5, -25)
- Histone methyltransferase (SUV39H1) Antibody (Cat. No. 3942-100)

FOR RESEARCH USE ONLY! Not to be used on humans.

