



EHMT2 Rabbit mAb

Catalog No	YP-rAb-17299
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	EHMT2 BAT8 C6orf30 G9A KMT1C NG36
Protein Name	Histone-lysine N-methyltransferase EHMT2 (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)
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	
Observed Band	180kD
Calculated Molecular Weight	132kD
Cell Pathway	Nucleus . Chromosome . Associates with euchromatic regions. Does not associate with heterochromatin.
Tissue Specificity	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.
Function	Alternative products:Additional isoforms seem to exist,Catalytic activity:S-adenosyl-L-methionine + histone L-lysine = S-adenosyl-L-homocysteine + histone N(6)-methyl-L-lysine.,Caution:It is uncertain whether Met-1 or Met-21 is the initiator methionine.,Caution:PubMed:11707778 reported that while NG36 and G9a were originally thought to derive from two separate genes, all G9A transcripts also contain the in frame coding sequence of NG36.,Domain:The SET domain mediates interaction with WIZ.,Function:Histone methyltransferase. Preferentially methylates 'Lys-9' of histone H3 and 'Lys-27' of histone H3 (in vitro). H3 'Lys-9' methylation represents a specific tag for epigenetic transcriptional repression by recruiting HP1 proteins to methylated histones. Probably targeted to histone H3





by different DNA-binding proteins like E2F6, MGA, MAX and/or DP1. Also methylates histone H1. PTM: Phosphorylated upon DNA damage, probably by ATM or ATR. similarity: Belongs to the histone-lysine methyltransferase family. Suvar3-9 subfamily. similarity: Contains 1 post-SET domain. similarity: Contains 1 pre-SET domain. similarity: Contains 1 SET domain. similarity: Contains 7 ANK repeats. subcellular location: Associates with euchromatic regions. Does not associate with heterochromatin. subunit: Part of the E2F6.com-1 complex in G0 phase composed of E2F6, MGA, MAX, TFDP1, CBX3, BAT8, EUHMTASE1, RING1, RNF2, MBLR, L3MBTL2 and YAF2. Interacts with GF11B, WIZ and EHMT1. tissue specificity: 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.

Background

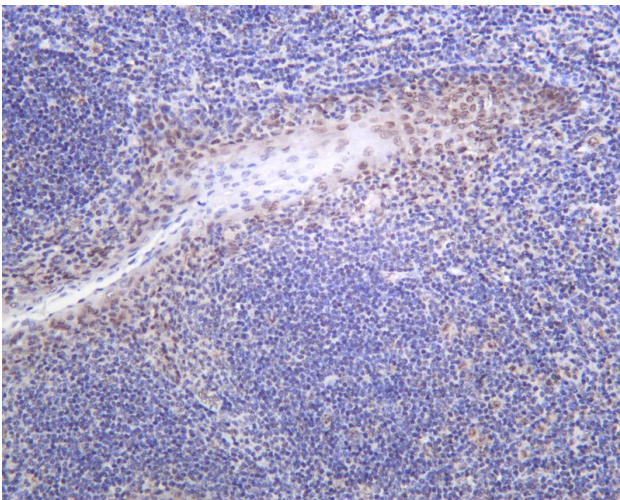
This gene encodes a methyltransferase that methylates lysine residues of histone H3. Methylation of H3 at lysine 9 by this protein results in recruitment of additional epigenetic regulators and repression of transcription. This gene was initially thought to be two different genes, NG36 and G9a, adjacent to each other in the HLA locus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016],

matters needing attention

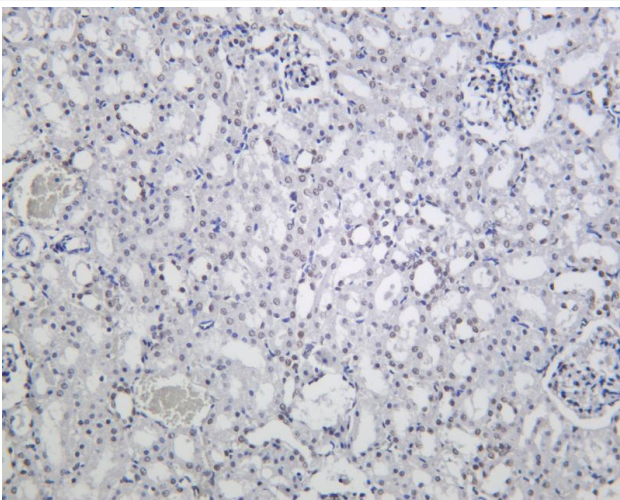
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Human tonsil was stained with anti-EHMT2 Rabbit antibody

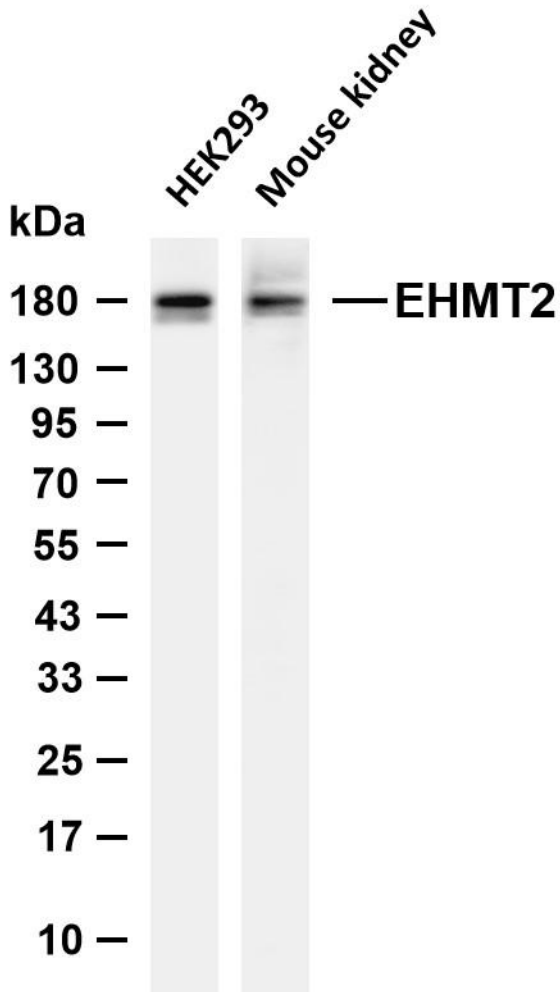


Rat kidney was stained with anti-EHMT2 Rabbit antibody





Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-EHMT2 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HEK293 Lane 2: Mouse kidney
Predicted band size: 132kDa Observed band size: 180kDa



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