



EHMT2 Polyclonal Antibody

Catalog No	YP-Ab-07147
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	EHMT2 BAT8 C6orf30 G9A KMT1C NG36
Immunogen	Synthesized peptide derived from human protein . at AA range: 370-450
Specificity	EHMT2 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	EHMT2/G9a;1A12E3;BAT8;C6orf30;EC:2.1.1.-;EHMT2;EHMT2 BAT8 C6orf30 G9A KMT1C NG36;Histone-lysine N-methyltransferase EHMT2 (EC 2.1.1.-) (EC 2.1.1.43) (Euchromatic histone-lysine N-methyltransferase 2) (HLA-B-associated transcript 8) (Histone H3-K9 methyltransferase 3) (H3-K9-HMTase
Observed Band	150 kDa and 170 kDa
Calculated Molecular Weight	1210 aa, 132 kDa
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:Phosphoryla

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.

Products Images