EHMT1 Mouse mAb

CatalogNo: YM0213

Key Features

Host Species
- Mouse

Reactivity
- Human

Applications
- WB,ELISA

MW
- 141kD (Calculated)

Recommended Dilution Ratios

WB 1:500-1:2000
ELISA 1:10000
Not yet tested in other applications.

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Monoclonal

Immunogen Information

Immunogen	Purified recombinant fragment of EHMT1 expressed in E. Coli.
Specificity	EHMT1 Monoclonal Antibody detects endogenous levels of EHMT1 protein.

Target Information

Gene name	EHMT1

Protein Name Histone-lysine N-methyltransferase, H3 lysine-9 specific 5

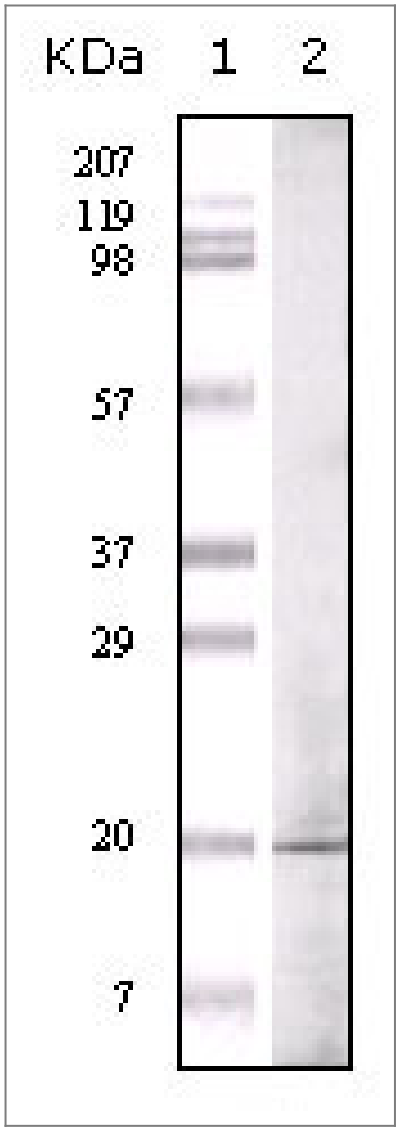
Organism	Gene ID	UniProt ID
Human	79813;	Q9H9B1;
Mouse		Q5DW34;

Cellular Localization Nucleus. Chromosome. Associates with euchromatic regions.

Tissue specificity Widely expressed.

Function Alternative products:Experimental confirmation may be lacking for some isoforms,Catalytic activity:S-adenosyl-L-methionine + histone L-lysine = S-adenosyl-L-homocysteine + histone N(6)-methyl-L-lysine.,Disease:Defects in EHMT1 are the cause of chromosome 9q subtelomeric deletion syndrome (9q- syndrome) [MIM:610253]. Common features seen in these patients are severe mental retardation, hypotonia, brachy(micro)cephaly, epileptic seizures, flat face with hypertelorism, synophrys, anteverted nares, cupid bow or tented upper lip, everted lower lip, prognathism, macroglossia, conotruncal heart defects, and behavioral problems.,Domain:The SET domain mediates interaction with WIZ.,Function:Histone methyltransferase. Methylates 'Lys-9' 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. During G0 phase, it probably contributes to silencing of MYC- and E2F-responsive genes, suggesting a role in G0/G1 transition in cell cycle.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,sequence Caution:Intron retention.,similarity:Belongs to the histone-lysine methyltransferase family.,similarity:Contains 1 pre-SET domain.,similarity:Contains 1 SET domain.,similarity:Contains 8 ANK repeats.,subcellular location:Associates with euchromatic regions.,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 WIZ and EHMT2.,tissue specificity:Widely expressed.,

Validation Data



Western Blot analysis using EHMT1 Monoclonal Antibody against EHMT1 recombinant protein.

Contact information

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Please scan the QR code to access additional product information:
EHMT1 Mouse mAb