Best Tools for immunology Research

EHMT1 Monoclonal Antibody

Catalog No :	YM0213
Reactivity :	Human
Applications :	WB;ELISA
Target :	EHMT1
Fields :	>>Lysine degradation;>>Metabolic pathways;>>Longevity regulating pathway
Gene Name :	EHMT1
Protein Name :	Histone-lysine N-methyltransferase, H3 lysine-9 specific 5
Human Gene Id :	79813
Human Swiss Prot No :	Q9H9B1
Mouse Swiss Prot No :	Q5DW34
Immunogen :	Purified recombinant fragment of EHMT1 expressed in E. Coli.
Specificity :	EHMT1 Monoclonal Antibody detects endogenous levels of EHMT1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	141kD

Cell Pathway : Lysine degradation;

P References : 1. Clark Q. Pan, Joanne M. Buxton, Stephanie L. Yung, et al. J Biol Chem. 2006 Feb 27.
2.Michael F. Crutchlow, Jee-Young Nina Ham, et al. Int J Biochem Cell Biol. 2006;38(5-6):845-859.
3.Andre

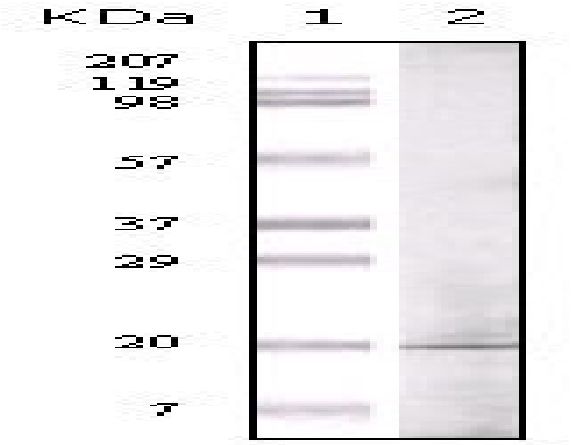
Background : The protein encoded by this gene is a histone methyltransferase that is part of the E2F6 complex, which represses transcription. The encoded protein methylates the Lys-9 position of histone H3, which tags it for transcriptional repression. This protein may be involved in the silencing of MYC- and E2F-responsive genes and therefore could play a role in the G0/G1 cell cycle transition. Defects in this gene are a cause of chromosome 9q subtelomeric deletion syndrome (9q-syndrome, also known as Kleefstra syndrome). Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014],

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 histo

Subcellular Location : Nucleus. Chromosome. Associates with euchromatic regions.

Expression : Widely expressed.

Products Images



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