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EHMT1 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant EHMT1.
Catalog # AT1869a

Product Information

Application	WB, IF
Primary Accession	Q9H9B1
Other Accession	NM_024757
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3G1
Calculated MW	141466

Additional Information

Gene ID	79813
Other Names	Histone-lysine N-methyltransferase EHMT1, 211-, Euchromatic histone-lysine N-methyltransferase 1, Eu-HMTase1, G9a-like protein 1, GLP, GLP1, Histone H3-K9 methyltransferase 5, H3-K9-HMTase 5, Lysine N-methyltransferase 1D, EHMT1, EUHMTASE1, GLP, KIAA1876, KMT1D
Target/Specificity	EHMT1 (NP_079033, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	EHMT1 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

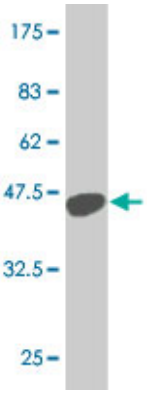
Background

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). Two transcript variants encoding different isoforms have been found for this gene.

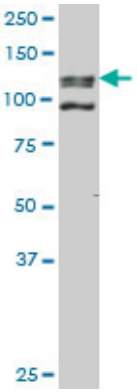
References

MDM2 recruitment of lysine methyltransferases regulates p53 transcriptional output. Chen L, et al. EMBO J, 2010 Aug 4. PMID 20588255.A Large-scale genetic association study of esophageal adenocarcinoma risk. Liu CY, et al. Carcinogenesis, 2010 Jul. PMID 20453000.Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.G9a and Glp methylate lysine 373 in the tumor suppressor p53. Huang J, et al. J Biol Chem, 2010 Mar 26. PMID 20118233.Structural biology of human H3K9 methyltransferases. Wu H, et al. PLoS One, 2010 Jan 11. PMID 20084102.

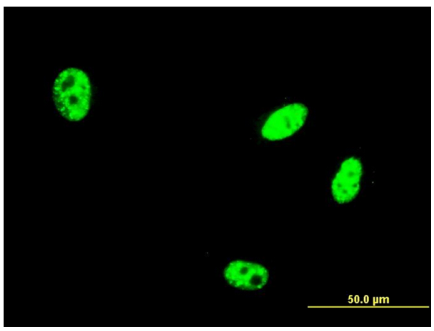
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



EHMT1 monoclonal antibody (M05), clone 3G1 Western Blot analysis of EHMT1 expression in Hela S3 NE ((Cat # AT1869a)



Immunofluorescence of monoclonal antibody to EHMT1 on HeLa cell. [antibody concentration 10 ug/ml]

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.