

**EHMT1 Antibody (monoclonal) (M05)****Mouse monoclonal antibody raised against a partial recombinant EHMT1.****Catalog # AT1869a****Specification**

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**EHMT1 Antibody (monoclonal) (M05) - Product Information**

Application	WB, IF
Primary Accession	<a href="#">O9H9B1</a>
Other Accession	<a href="#">NM_024757</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	141466

**EHMT1 Antibody (monoclonal) (M05) - 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.

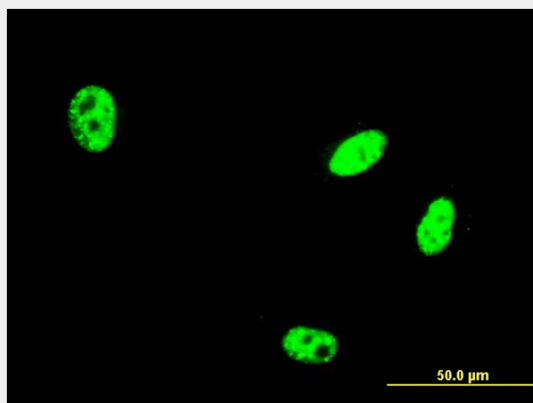
**EHMT1 Antibody (monoclonal) (M05) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

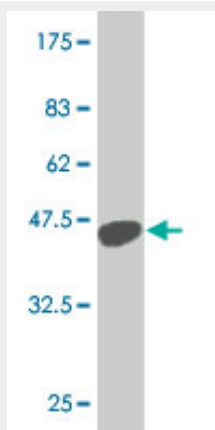
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

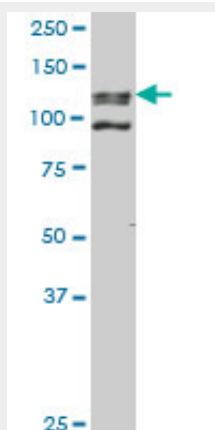
#### EHMT1 Antibody (monoclonal) (M05) - Images



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



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 )

#### **EHMT1 Antibody (monoclonal) (M05) - 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.

#### **EHMT1 Antibody (monoclonal) (M05) - 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.