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SETDB1 Antibody (monoclonal) (M07)

Mouse monoclonal antibody raised against a partial recombinant SETDB1.
Catalog # AT3832a

Specification

SETDB1 Antibody (monoclonal) (M07) - Product Information

Application	**IF, WB, E**
Primary Accession	Q15047
Other Accession	NM_012432
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**143157**

SETDB1 Antibody (monoclonal) (M07) - Additional Information

Gene ID 9869

Other Names
Histone-lysine N-methyltransferase SETDB1, ERG-associated protein with SET domain, ESET, Histone H3-K9 methyltransferase 4, H3-K9-HMTase 4, Lysine N-methyltransferase 1E, SET domain bifurcated 1, SETDB1, KIAA0067, KMT1E

Target/Specificity
SETDB1 (NP_036564, 2 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

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
SETDB1 Antibody (monoclonal) (M07) is for research use only and not for use in diagnostic or therapeutic procedures.

SETDB1 Antibody (monoclonal) (M07) - Protocols

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

- Western Blot
- Blocking Peptides

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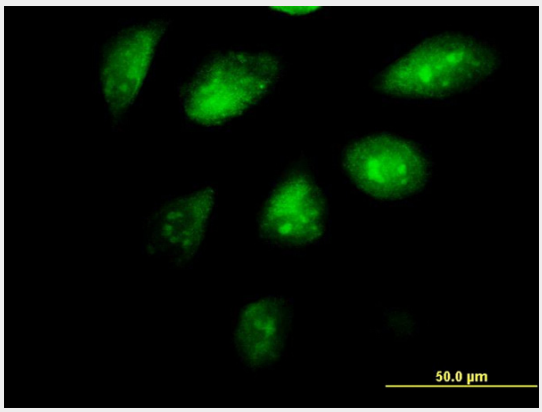
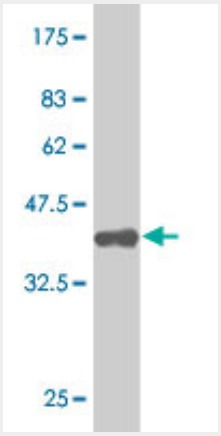
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

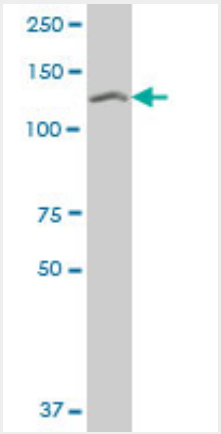
SETDB1 Antibody (monoclonal) (M07) - Images



Immunofluorescence of monoclonal antibody to SETDB1 on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



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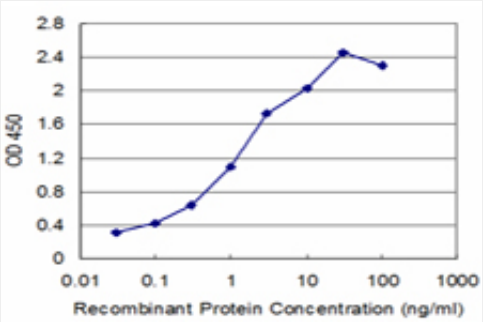
SETDB1 monoclonal antibody (M07), clone 4A3 Western Blot analysis of SETDB1 expression in SW-13 ((Cat # AT3832a)



Detection limit for recombinant GST tagged SETDB1 is approximately 0.1ng/ml as a capture antibody.

SETDB1 Antibody (monoclonal) (M07) - Background

This gene encodes a histone methyltransferase. The encoded enzyme catalyzes the reaction of S-adenosyl-L-methionine and histone L-lysine to produce S-adenosyl-L-homocysteine and histone N(6)-methyl-L-lysine. The encoded protein likely functions in transcriptional repression. Alternatively spliced transcript variants have been described.

SETDB1 Antibody (monoclonal) (M07) - References

Common genetic variation in candidate genes and susceptibility to subtypes of breast cancer. Mavaddat N, et al. Cancer Epidemiol Biomarkers Prev, 2009 Jan. PMID 19124506.Lysine methylation of HIV-1 Tat regulates transcriptional activity of the viral LTR. Van Duyne R, et al. Retrovirology, 2008 May 22. PMID 18498648.Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.Akt/PKB interacts with the histone H3 methyltransferase SETDB1 and coordinates to silence gene expression. Gao H, et al. Mol Cell Biochem, 2007 Nov. PMID 17577629.ESET/SETDB1 gene expression and histone H3 (K9) trimethylation in Huntington's disease. Ryu H, et al. Proc Natl Acad Sci U S A, 2006 Dec 12. PMID 17142323.