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SETDB1 Antibody (monoclonal) (M07)

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

Product Information

Application	WB, IF, E
Primary Accession	Q15047
Other Accession	NM_012432
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4A3
Calculated MW	143157

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 IF~~1:50~200 E~~N/A
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.

Background

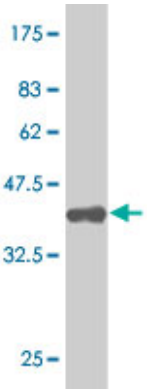
This gene encodes a histone methyltransferase. The encoded enzyme catalyzes the reaction of S-adenosyl-L-methionine and histone L-lysine to produce S-adenosyl-L-homocysteine and histone N(6)-methyl-L-lysine. The encoded protein likely functions in transcriptional repression. Alternatively spliced transcript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

References

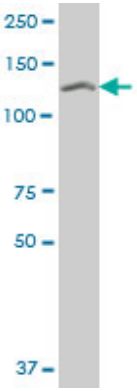
Common genetic variation in candidate genes and susceptibility to subtypes of breast cancer. Mavaddat N,

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.

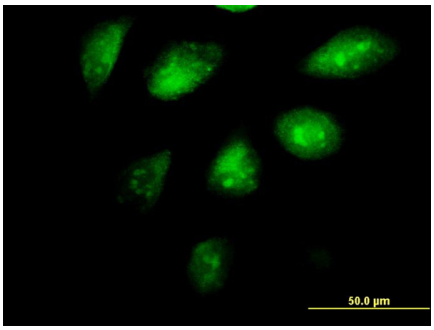
Images



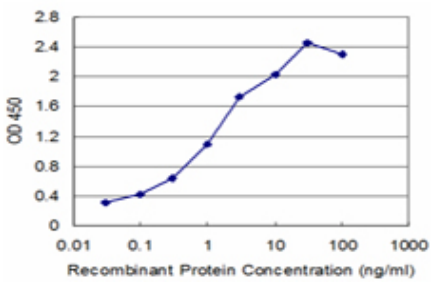
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



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



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



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