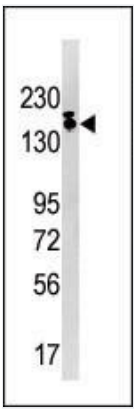
SETDB1 Antibody – Rabbit Polyclonal

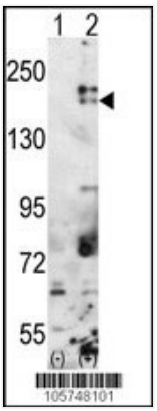
PRODUCT OVERVIEW

Product Name	SETDB1, Polyclonal Antibody
Full Product Name	SETDB1, CT (Histone H3-K9 Methyltransferase 4, H3-K9-HMTase 4, SET Domain Bifurcated 1, ERG-associated Protein with SET Domain, Histone-lysine N-methyltransferase SETDB1, Lysine N-methyltransferase 1E, ESET, KIAA0067, KMT1E) (PE)
Product Gene Name	anti-SETDB1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human SETDB1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	143.157
OMIM	604396
3D Structure	ModBase 3D Structure for Q15047
Immunogen	Synthetic peptide selected from the C-terminal region of human SETDB1 (KLH).
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-SETDB1 antibody	Antibodies; Enzymes; Methyltransferase
Applications Tested/Suitable for anti-SETDB1 antibody	Western Blot (WB), FLISA
Application Notes for anti-SETDB1 antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SETDB1 antibody	MBS6499109 is an antibody targeting SETDB1. Also known as SETDB1, CT (Histone H3-K9 Methyltransferase 4, H3-K9-HMTase 4, SET Domain Bifurcated 1, ERG-associated Protein with SET Domain, Histone-lysine N-methyltransferase SETDB1, Lysine N-methyltransferase 1E, ESET, KIAA0067, KMT1E) (PE). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-SETDB1 antibody	1. Ichimura, T., et al., J. Biol. Chem. 280(14):13928-13935 (2005). 2. Sarraf, S.A., et al., Mol. Cell 15(4):595-605 (2004). 3. Wang, H., et al., Mol. Cell 12(2):475-487 (2003). 4. Schultz, D.C., et al., Genes Dev. 16(8):919-932 (2002). 5. Yang, L., et al., Biochem. J. 369(PT 3), 651-657 (2003).

Other Notes	Small volumes of anti-SETDB1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-SETDB1 antibody
Western blot analysis of anti-SETDB1 Pab in Ramos cell line lysate (35ug/lane). SETDB1 (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-SETDB1 antibody
Western blot analysis of SETDB1 (arrow) using rabbit polyclonal SETDB1 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the SETDB1 gene (Lane 2) (Origene Technologies).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SETDB1. It may not necessarily be applicable to this product.

NCBI GI #	224177469
NCBI GeneID	9869
NCBI Accession #	NP_036564
UniProt Primary Accession #	Q15047
UniProt Related Accession #	Q15047
GenBank Nucleotide #	NP_036564.3
NCBI Official Full Name	histone-lysine N-methyltransferase SETDB1 isoform 2
NCBI Official Synonym Full Names	SET domain bifurcated histone lysine methyltransferase 1
NCBI Official Symbol	SETDB1
NCBI Official Synonym Symbols	ESET; KG1T; KMT1E; TDRD21; H3-K9-HMTase4
UniProt Protein Name	Histone-lysine N-methyltransferase SETDB1
UniProt Synonym Protein Names	ERG-associated protein with SET domain; ESET; Histone H3-K9 methyltransferase 4; H3-K9-HMTase 4; Lysine N-methyltransferase 1E; SET domain bifurcated 1
Protein Family	Histone-lysine N-methyltransferase
UniProt Gene Name	SETDB1
UniProt Synonym Gene Names	KIAA0067; KMT1E; ESET; H3-K9-HMTase 4
UniProt Entry Name	SETB1_HUMAN
NCBI Protein Information	histone-lysine N-methyltransferase SETDB1
NCBI Summary for SETDB1	This gene encodes a histone methyltransferase which regulates histone methylation, gene silencing, and transcriptional repression. This gene has been identified as a target for treatment in Huntington Disease, given that gene silencing and transcription dysfunction likely play a role in the disease pathogenesis. Alternatively spliced transcript variants of this gene have been described.[provided by RefSeq, Jun 2011]

UniProt Comments for SETDB1	SETDB1: a protein lysine methyltransferase that specifically trimethylates K9 of histone H3 (H3K9me3), a specific tag for epigenetic transcriptional repression by recruiting HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. Unlike SUV39H H3K9 methyltransferase, which functions mainly in heterochromatin regions such as pericentric heterochromatin, SETDB1 functions mainly in euchromatic regions, playing a central role in the silencing of euchromatic genes. H3K9me3 is coordinated with DNA methylation. Interacts with a variety of proteins, including transcription factors (ERG), histone deacetylases (HDAC1/2), DNA methyltransferases (DNMT3A/B) and transcriptional co-repressors (mSin3A/B, MBD1, KAP-1, the ATFa-associated modulator mAM). Its activity is dependent on MBD1 and is heritably maintained through DNA replication by being recruited by CAF-1. Contains Tudor and methyl-CpG-binding domains, which may coordinate binding to methylated histones and methylated DNA, respectively. Is targeted to histone H3 by TIF1B, a factor recruited by KRAB zinc-finger proteins. Recruited by DNMT3A to silenced promoters in cancer cells. May play a role in the pathogenesis of Huntington's disease, since levels of SETDB1 and H3K9me3 are both increased in diseased brains. Belongs to the histone-lysine methyltransferase family. Suvar3-9 subfamily. Three isoforms of the human protein are produced by alternative splicing. Protein type: Methyltransferase; Methyltransferase, protein lysine; EC 2.1.1.43; Amino Acid Metabolism - lysine degradation Chromosomal Location of Human Ortholog: 1q21 Cellular Component: nucleoplasm; intracellular membrane-bound organelle; cytoplasm; nuclear chromatin; plasma membrane; nucleus Molecular Function: protein binding; DNA binding; zinc ion binding; histone-lysine N-methyltransferase activity Biological Process: establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; negative regulation of transcription from RNA polymerase II promoter; inner cell mass cell proliferation
Research Articles on SETDB1	**1.** SETDB1 is a major driver of melanoma development.
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