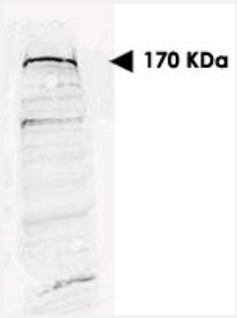
SETDB1 polyclonal antibody

Catalog # PAB10044 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis is shown using SETDB1 polyclonal antibody (Cat # PAB10044) to detect human SETBD1 present in a 293 whole cell lysate.
Approximately 30 ug of lysate was loaded per lane for SDS-PAGE.
Comparison to a molecular weight marker (not shown) indicates a singleband of ~170 KDa is detected.
Peptide competition (not shown) blocks staining of this band.
The blot was incubated with a 1:1000 dilution of the antibody at room temperature for 2h followed by detection using IRDye™800 labeled Goat-a-Rabbit IgG [H&L] diluted1:5,000 for 45 min.
IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR.
IRDye is a trademark of LI-COR, Inc.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of SETDB1.
Immunogen	A synthetic peptide corresponding to amino acids 1058-1075 of human SETDB1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:10000-1:50000) Western Blot (1:1000-1:2500) The optimal working dilution should be determined by the end user.

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Storage Buffer	In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry
- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Cell lysate)

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IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR.
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Gene Info — SETDB1

Entrez GeneID	9869
Protein Accession#	NP_036564;Q15047
Gene Name	SETDB1
Gene Alias	ESET, KG1T, KIAA0067, KMT1E
Gene Description	SET domain, bifurcated 1
Omim ID	604396
Gene Ontology	Hyperlink
Gene Summary	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. Alternativel y spliced transcript variants have been described

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Other Designations	ERG-associated protein with a SET domain, ESET

Publication Reference

- Methyl-CpG binding protein MBD1 couples histone H3 methylation at lysine 9 by SETDB1 to DNA replication and chromatin assembly.

  Sarraf SA, Stancheva I.

  Molecular Cell 2004 Aug; 15(4):595.

  Application: WB, Human, HeLa cells

- mAM facilitates conversion by ESET of dimethyl to trimethyl lysine 9 of histone H3 to cause transcriptional repression.

  Wang H, An W, Cao R, Xia L, Erdjument-Bromage H, Chatton B, Tempst P, Roeder RG, Zhang Y.

  Molecular Cell 2003 Aug; 12(2):475.

  Application: WB-Tr, Human, 293T, HeLa cells

- SETDB1: a novel KAP-1-associated histone H3, lysine 9-specific methyltransferase that contributes to HP1-mediated silencing of euchromatic genes by KRAB zinc-finger proteins.

  Schultz DC, Ayyanathan K, Negorev D, Maul GG, Rauscher FJ 3rd.

  Genes & Development 2002 Apr; 16(8):919.

  Application: ChIP, IF, WB, Human, Mouse, HeLa, NIH/3T3 cells, Recombinant protein

- Assignment of a novel bifurcated SET domain gene, SETDB1, to human chromosome band 1q21 by in situ hybridization and radiation hybrids.

  Harte PJ, Wu W, Carrasquillo MM, Matera AG.

  Cytogenetics and Cell Genetics 1999 Jan; 84(1-2):83.

Pathway

- Lysine degradation

Disease

- Breast cancer
- Breast Neoplasms

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- Genetic Predisposition to Disease

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