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Datasheet for ABIN1387645 anti-SETDB1 antibody (AA 201-300)

Publication

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Overview

Quantity:	100 μL
Target:	SETDB1
Binding Specificity:	AA 201-300
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SETDB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human SETDB1
Isotype:	lgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human,Mouse,Dog,Cow,Sheep,Pig,Horse,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:

SETDB1

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Target Details	
Alternative Name:	KMT1E/SETDB1 (SETDB1 Products)
Background:	Synonyms: ESET, KG1T, KMT1E, TDRD21, H3-K9-HMTase4, Histone-lysine N-methyltransferase
	SETDB1, ERG-associated protein with SET domain, Histone H3-K9 methyltransferase 4, H3-K9-
	HMTase 4, Lysine N-methyltransferase 1E, SET domain bifurcated 1, SETDB1, KIAA0067
	Background: Histone methyltransferase that specifically trimethylates 'Lys-9' of histone H3. H3
	'Lys-9' trimethylation represents a specific tag for epigenetic transcriptional repression by
	recruiting HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. Mainly functions in
	euchromatin regions, thereby playing a central role in the silencing of euchromatic genes. H3
	'Lys-9' trimethylation is coordinated with DNA methylation. Probably forms a complex with
	MBD1 and ATF7IP that represses transcription and couples DNA methylation and histone 'Lys-
	9' trimethylation. Its activity is dependent on MBD1 and is heritably maintained through DNA
	replication by being recruited by CAF-1. SETDB1 is targeted to histone H3 by TRIM28/TIF1B, a
	factor recruited by KRAB zinc-finger proteins. Probably forms a corepressor complex required
	for activated KRAS-mediated promoter hypermethylation and transcriptional silencing of tumor
	suppressor genes (TSGs) or other tumor-related genes in colorectal cancer (CRC) cells
	(PubMed:24623306). Also required to maintain a transcriptionally repressive state of genes in
	undifferentiated embryonic stem cells (ESCs) (PubMed:24623306). Associates at promoter
	regions of tumor suppressor genes (TSGs) leading to their gene silencing (PubMed:24623306).
	The SETDB1-TRIM28-ZNF274 complex may play a role in recruiting ATRX to the 3'-exons of
	zinc-finger coding genes with atypical chromatin signatures to establish or maintain/protect
	H3K9me3 at these transcriptionally active regions (PubMed:27029610).
Gene ID:	9869
UniProt:	Q15047
Application Details	

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	IP(1-2 µg)
	ICC 1:100-500

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Application Details

Restrictions:

For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months
Publications	
Product cited in:	Marco, Kisliouk, Tabachnik, Weller, Meiri et al.: "DNA CpG Methylation (5-Methylcytosine) and Its

Product cited in: Marco, Kisliouk, Tabachnik, Weller, Meiri et al.: "DNA CpG Methylation (5-Methylcytosine) and Its Derivative (5-Hydroxymethylcytosine) Alter Histone Posttranslational Modifications at the Pomc Promoter, Affecting the Impact of Perinatal Diet on ..." in: **Diabetes**, Vol. 65, Issue 8, pp. 2258-67, (2016) (PubMed).