



Anti-SETDB1 monoclonal antibody, clone 6I7B23 (DCABH-103)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to KMT1E / SETDB1
Antigen Description	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.
Immunogen	Purified recombinant fragment of human SETDB1 expressed in E. Coli.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Mouse, Human, Monkey
Clone	6I7B23
Purity	Ascites
Purification	Unpurified
Conjugate	Unconjugated
Applications	WB, ELISA, ICC/IF

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Recommended dilution:

Western Blot 1:500 - 1:2000; ELISA 1:10000; Immunocytochemistry/Immunofluorescence 1:200 - 1:1000

Positive Control	MCF-7,T47D, HEK293, JURKAT, NIH/3T3, F9, RAW246.7 and COS-7 cell lysates.
Format	Liquid
Size	100 μΙ
Buffer	Preservative: 0.03% Sodium Azide
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Storage	store at -20°C. Avoid freeze / thaw cycles.
Ship	Shipped at 4°C.

GENE INFORMATION

Gene Name	SETDB1 SET domain, bifurcated 1 [Homo sapiens]
Official Symbol	SETDB1
Synonyms	SETDB1; SET domain, bifurcated 1; histone-lysine N-methyltransferase SETDB1; ESET; KG1T; KIAA0067; KMT1E; H3-K9-HMTase 4; lysine N-methyltransferase 1E; histone H3-K9 methyltransferase 4; ERG-associated protein with SET domain; ERG-associated protein with
Entrez Gene ID	9869
Protein Refseq	NP 001138887
UniProt ID	Q15047
Chromosome Location	1q21
Pathway	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem; Noncanonical Wnt signaling pathway, organism-specific biosystem;
Function	DNA binding; histone-lysine N-methyltransferase activity; methyltransferase activity; protein binding; transferase activity; zinc ion binding;

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