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## SETDB1 Polyclonal antibody Catalog Number:11231-1-AP Featured Product 88

Featured Product 88 Publications



Basic Information	Catalog Number: 11231-1-AP	GenBank Accession Number: BC009362		Purification Method: Antigen affinity purification	
	Size: 150ul , Concentration: 900 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG1725	GeneID (NCBI): 9869 UNIPROT ID: Q15047 Full Name: SET domain, bifurca Calculated MW: 143 kDa Observed MW: 170 kDa	ted 1	Recommended Dilutions: WB: 1:2000-1:12000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:50-1:500 IF/ICC: 1:200-1:800 FC (Intra): 0.40 ug per 10^6 cells in a 100 μl suspension ChIP: 1:10-1:100	
Applications	Tested Applications: Positive Controls:			ntrols:	
	WB, IHC, IF/ICC, FC (Intra), IP, ChIP, ELISA Cited Applications: WB, IHC, IF, IP, CoIP, ChIP Species Specificity: human, mouse		WB : HEK-293 cells, HeLa cells, human testis tissue, Jurkat cells, MCF-7 cells, PC-3 cells, MDA-MB-231 cel NIH/3T3 cells		
					IP : MCF-7 cells,
			IHC : human lung cancer tissue, human testis tissue		
			Cited Species: human, mouse		IF/ICC : A43
	Note-IHC: suggested antigen retrieval with		FC (Intra) : A431 cells,		
				cells,	
Background Information	SET domain protein with histone H3- with DNA methylation and represent (CBX1, CBX3 and/or CBX5) proteins to thereby playing a central role in the ATF7IP that represses transcription a dependent on MBD1 and is heritably regulates histone methylation, gene treatment in Huntington Disease, giv disease pathogenesis. This antibody	K9-specific methyltra is a specific tag for ep o methylated histone silencing of euchrom. nd couples DNA meth maintained through I silencing, and transc ven that gene silencin is a rabbit polyclona	nsferase activit igenetic transcri s. SETDB1 mainl atic genes. It pro- nylation and hist DNA replication iptional repress g and transcript antibody raised		
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Background Information Notable Publications Storage *** 20ul sizes contain 0.1% BSA	SET domain protein with histone H3- with DNA methylation and represent (CBX1, CBX3 and/or CBX5) proteins to thereby playing a central role in the ATF7IP that represses transcription a dependent on MBD1 and is heritably regulates histone methylation, gene treatment in Huntington Disease, giv disease pathogenesis. This antibody human SETDB1.The calculated molec 170 kDa (PMID: 11791185). Author Pul Keli Chen 29 Qi Li 344 Tiantian Liu 284 Storage: Store at -20°C. Stable for one year aff Storage Buffer:	K9-specific methyltra s a specific tag for ep o methylated histone silencing of euchrom. nd couples DNA meth maintained through 1 silencing, and transci- ren that gene silencir is a rabbit polyclonal cular weight of SETDE bmed ID Jou 158805 J Ca 497149 J In 890329 Bio	nsferase activit igenetic transcri s. SETDB1 mainl atic genes. It pro- nylation and high polar replication iptional repress g and transcript antibody raised to is 143 kDa, bu rnal ancer	y. H3 'Lys-9' trimethylation is coordinated ptional repression by recruiting HP1 y functions in euchromatin regions, ibably forms a complex with MBD1 and cone 'Lys-9' trimethylation. Its activity is by being recruited by CAF-1. SETDB1 ion. It has been identified as a target for ion dysfunction likely play a role in the d against residues near the N terminus of it the modified SETDB1 protein is about Application chIP ChIP	

## Selected Validation Data



WB result of SETDB1 antibody (11231-1-AP, 1:1000) with si-Control and si-SETDB1 transfected Jurkat cells.



(under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Chromatin was prepared from HeLa cells, cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 µg of cross-linked chromatin, 5 µg of SETDB1 Antibody (11231-1-AP) or 5 µg of Normal Rabbit IgG (30000-0-AP), and 30 µl of Protein A Magarose Beads. The immunoprecipitated DNA was quantified by real time DCP. Brimeer are located in the first kho of the time PCR. Primers are located in the first kb of the transcribed region.



IP result of anti-SETDB1 (IP:11231-1-AP, 3ug; Detection:11231-1-AP 1:1000) with MCF-7 cells lysate 2500ug.



Various lysates were subjected to SDS PAGE followed by western blot with 11231-1-AP (SETDB1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of SETDB1 antibody (11231-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SETDB1 transfected HeLa cells.



Various lysates were subjected to SDS PAGE followed by western blot with 11231-1-AP (SETDB1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



IP result of anti-SETDB1 (IP:11231-1-AP, 4ug; Detection:11231-1-AP 1:3000) with MCF-7 cells lysate 1720 ug.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using SETDB1 antibody (11231-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1x10^6 A431 cells were intracellularly stained with 0.4 ug SETDB1 Polyclonal antibody (11231-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).