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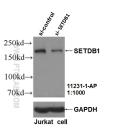
SETDB1 Polyclonal antibody Catalog Number: 11231-1-AP Featured Product 87 Publications



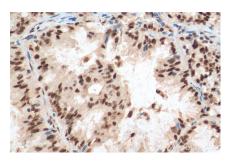
Basic Information	Catalog Number: 11231-1-AP	GenBank Accession Number: BC009362		Purification Method: Antigen affinity purification	
	Concentration:	GeneID (NCBI):	I): Recommended Dilutions: WB: 1:2000-1:12000		
	900 ug/ml	9869			
	Source: Rabbit			IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:50-1:500	
	lsotype: IgG	Full Name: SET domain, bifur	cated 1	IF/ICC: 1:200-1:800 FC (Intra): 0.40 ug per 10^6 cells in a	
	Immunogen Catalog Number: AG1725	Calculated MW: 143 kDa		100 µl suspension ChIP: 1:10-1:100	
		Observed MW: 170 kDa			
Applications	Tested Applications: WB, IHC, IF/ICC, FC (Intra), IP, ChIP, ELISA Cited Applications: WB, IHC, IF, IP, CoIP, ChIP Species Specificity: human, mouse Cited Species: human, mouse		Positive Co	Positive Controls:	
			WB : HEK-293 cells, HeLa cells, human testis tissue, Jurkat cells, MCF-7 cells, PC-3 cells, MDA-MB-231 cell NIH/3T3 cells		
					IP:MCF-7 c
			IHC : humai	IHC : human lung cancer tissue, human testis tissue	
			IF/ICC : A4	IF/ICC : A431 cells,	
			Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		FC (Intra) :
	ChIP : HeLa cells,				
	Background Information	SET domain protein with histone H3-K9-specific methyltransferase activity. H3 'Lys-9' trimethylation is coordinated with DNA methylation and represents a specific tag for epigenetic transcriptional repression by recruiting HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. SETDB1 mainly functions in euchromatin regions, thereby playing a central role in the silencing of euchromatic genes. It 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 regulates histone methylation, gene silencing, and transcriptional repression. It 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. This antibody is a rabbit polyclonal antibody raised against residues near the N terminus of human SETDB1. The calculated molecular weight of SETDB1 is 143 kDa, but the modified SETDB1 protein is about 170 kDa (PMID: 11791185).			
Notable Publications	Author	Pubmed ID Jo	ournal	Application	
	Keli Chen	29158805 J	Cancer	chIP	
	Qi Li	34497149 J	Immunol	ChIP	
	Tiantian Liu	28890329 B	ochim Biophys A	cta chIP	
Storage	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage				
For technical support and original validation d T: 4006900926 E: Proteintech-C	lata for this product please contact: N@ptglab.com W: ptgcn	com		s exclusively available under Proteintech and is not available to purchase from any	

other manufacturer.

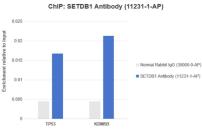
Selected Validation Data



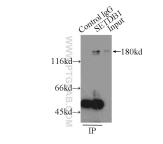
WB result of SETDB1 antibody (11231-1-AP, 1:1000) with si-Control and si-SETDB1 transfected Jurkat cells.



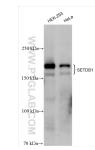
Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 11231-1-AP (SETDB1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



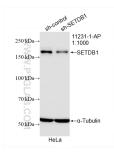
Chromatin was prepared from HeLa cells, cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 µg of cross-linked chromatin, 5 µg of SETDB1 Antibody (11231-1-AP) or 5 µg of Normal Rabbit 1gG (3000-0-AP), and 30 µl of Protein A Magarose Beads. The immunoprecipitated DNA was quantified by real time PCR. Primers are located in the first kb of the transcribed region.



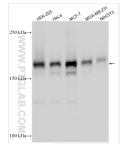
IP result of anti-SETDB1 (IP:11231-1-AP, 3ug; Detection:11231-1-AP 1:1000) with MCF-7 cells lysate 2500ug.



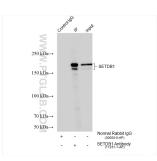
Various lysates were subjected to SDS PAGE followed by western blot with 11231-1-AP (SETDB1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



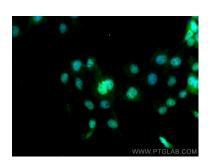
WB result of SETDB1 antibody (11231-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SETDB1 transfected HeLa cells.



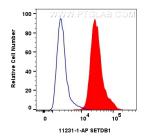
Various lysates were subjected to SDS PAGE followed by western blot with 11231-1-AP (SETDB1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



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).