For Research Use Only

SETDB1 Recombinant antibody, PBS Only



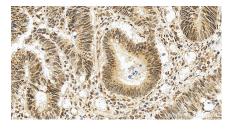
Catalog Number:83772-6-PBS

Basic Information	Catalog Number: 83772-6-PBS	GenBank Accession Number: BC009362	Purification Method: Protein A purfication		
	Size: 100ug, Concentration: 1 mg/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG1725	GenelD (NCBI): 9869 UNIPROT ID: Q15047	CloneNo.: 240805F2		
				Full Name: SET domain, bifurcated 1 Calculated MW: 143 kDa	
		Observed MW: 170 kDa			
		Applications	Tested Applications: IHC, IF/ICC, FC (Intra), ELISA		
			Species Specificity: human		
Background Information	SETDB1, also named as ESET, KIAA0067 and KMT1E, belongs to the histone-lysine methyltransferase family. It is a 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).				
Storage	Storage: Store at -80°C. Storage Buffer: PBS Only				

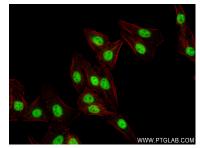
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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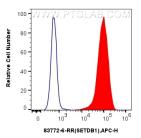
Selected Validation Data



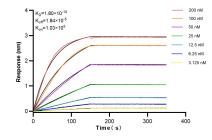
Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 83772-6-RR (SETDB1 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83772-6-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SETDB1 antibody (83772-6-RR, Clone: 240805F2) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83772-6-PBS in a different storage buffer formulation.



1x10^6 HeLa cells were intracellularly stained with 0.25 ug SETDB1 Recombinant antibody (83772-6-RR, Clone:240805F2) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83772-6-PBS in a different storage buffer formulation.



Biolayer interferometry (BLL) kinetic assays of 83772-6-RR against Human SETDB1 were performed. The affinity constant is 0.18 nM.