For Research Use Only

SETDB1 Monoclonal antibody, PBS Only



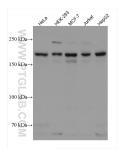
Catalog Number:66293-1-PBS

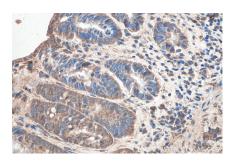
Basic Information	Catalog Number: 66293-1-PBS	GenBank Accession Number: BC 009362	Purification Method: Protein A purification
	Size: 1mg/ml	GenelD (NCBI): 9869	CloneNo.: 1H6E5
	Source: Mouse	UNIPROT ID: Q15047	
	lsotype: lgG1	Full Name: SET domain, bifurcated 1	
	Immunogen Catalog Number: AG21644	Calculated MW: 143 kDa	
		Observed MW: 170-180 kDa	
Applications	Tested Applications: WB, IF, IHC, ELISA		
	Species Specificity: human, mouse, rat		
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. 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: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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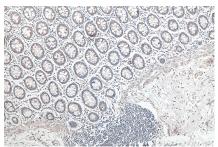
Selected Validation Data



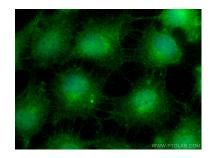


Various lysates were subjected to SDS PAGE followed by western blot with 66293-1-1g (SETDB1 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66293-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffinembedded mouse colon tissue slide using 66293-1-Ig (SETDB1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66293-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human colon tissue slide using 66293-1-Ig (SETDB1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66293-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using SETDB1 antibody (66293-1-lg, Clone: 1H6E5) at dilution of 1:800 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66293-1-PBS in a different storage buffer formulation.