For Research Use Only

SETDB1 Monoclonal antibody, PBS Only



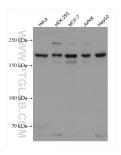
Catalog Number:66293-1-PBS

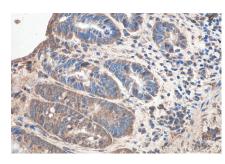
Basic Information	Catalog Number: 66293-1-PBS	GenBank Accession Number: BC009362	Purification Method: Protein A purification
	Size: 1mg/ml	GenelD (NCBI): 9869	CloneNo.: 1H6E5
	Source: Mouse	UNIPROT ID: Q15047	
	lsotype: lgG1	Full Name: SET domain, bifurcated 1	
	Immunogen Catalog Number: AG21644	Calculated 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. The product is shipped with ice pa Storage Buffer: PBS Only	cks. Upon receipt, store it immediatel	y at -80℃

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

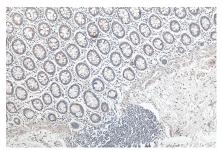
Selected Validation Data



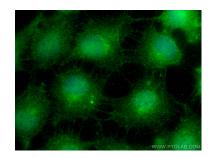


Various lysates were subjected to SDS PAGE In followed by western blot with 66293-1-1g (SETDB1 er antibody) at dilution of 1:100000 incubated at room In temperature for 1.5 hours. This data was developed using the same antibody clone with 66293-1-PBS in a different storage buffer formulation.

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-Ig, 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.