For Research Use Only

SETDB1 Recombinant antibody

Catalog Number:83772-5-RR



Basic Information

Catalog Number:

83772-5-RR BC009362

Size: GeneID (NCBI): 100ul , Concentration: 750 µg/ml by 9869

Nanodrop; UNIPROT ID:

Source: Q15047
Rabbit Full Name:

Isotype: SET domain, bifurcated 1

IgG Calculated MW:
Immunogen Catalog Number: 143 kDa

AG1725 Observed MW:

170-180 kDa

GenBank Accession Number:

Purification Method: Protein A purfication

CloneNo.:

240805D7

Recommended Dilutions: WB 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity: human, mouse

Positive Controls:

WB: HEK-293 cells, Jurkat cells, HeLa cells, MCF-7

cells, NIH/3T3 cells, T-47D cells

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 -20°C. Stable for one year after shipment.

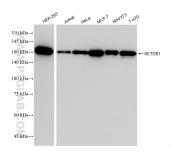
Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83772-5-RR (SETDB1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.