

SETD1A Monoclonal antibody

Catalog Number: 67936-1-Ig

Featured Product

5 Publications

Basic Information

Catalog Number:

67936-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG30424

GenBank Accession Number:

NM_014712

GeneID (NCBI):

9739

UNIPROT ID:

O15047

Full Name:

SET domain containing 1A

Calculated MW:

186 kDa

Observed MW:

270 kDa

Purification Method:

Protein G purification

CloneNo.:

1C2G12

Recommended Dilutions:

WB 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IF

Species Specificity:

Human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : HeLa cells, LNCaP cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, mouse brain tissue, HEK-293 cells, HepG2 cells, Jurkat cells

Background Information

SETD1A is a SET domain-containing methyltransferase involved in the epigenetic regulation of transcription (PMID:12670868). It is the main catalytic component of a multiprotein complex that methylates lysine 4 of histone H3, a histone mark associated with gene activation (PMID:29937342). Responsible for H3K4me3 enriched promoters and transcriptional programming of inner mass stem cells and neuron progenitors during embryogenesis (PMID:31197650). Does not methylate 'Lys-4' of histone H3 if the neighboring 'Lys-9' residue is already methylated (PubMed:12670868). SETD1A has a calculated molecular weight of 186 kDa, and a 258 kDa band was also reported (PMID: 31076518).

Notable Publications

Author	Pubmed ID	Journal	Application
Pawel Piatek	38745328	J Inflamm (Lond)	IF
Yali Qin	38750719	Cancer Lett	WB
Nini Zhang	38600123	Nat Commun	WB

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

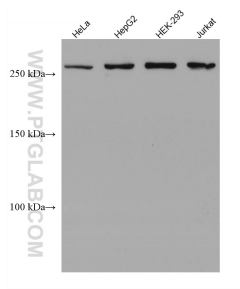
For technical support and original validation data for this product please contact:

T: 4006900926

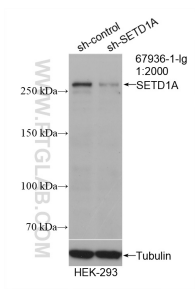
E: Proteintech-CN@ptglab.comW: ptgcn.com

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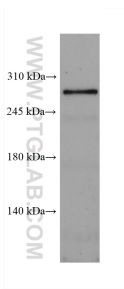
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67936-1-Ig (SETD1A antibody) at dilution of 1:10000 and incubated at room temperature for 1.5 hours.



WB result of SETD1A antibody (67936-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SETD1A transfected HEK-293 cells.



Mouse brain tissue was subjected to SDS PAGE followed by western blot with 67936-1-Ig (SETD1A antibody) at a dilution of 1:3000 and incubated at room temperature for 1.5 hours.