

For Research Use Only

# SETD1A Monoclonal antibody

Catalog Number: 67936-1-Ig

Featured Product

2 Publications



## Basic Information

<b>Catalog Number:</b> 67936-1-Ig	<b>GenBank Accession Number:</b> NM_014712	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9739	<b>CloneNo.:</b> 1C2G12
<b>Source:</b> Mouse	<b>Full Name:</b> SET domain containing 1A	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 186 kDa	
<b>Immunogen Catalog Number:</b> AG30424	<b>Observed MW:</b> 270 kDa	

## Applications

**Tested Applications:**  
WB, ELISA

**Cited Applications:**  
WB

**Species Specificity:**  
Human, mouse, rat

**Cited Species:**  
human

**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
Tao Fan	37735441	Signal Transduct Target Ther	WB
Huaizhen Liang	37605006	Cell Death Differ	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

\*\*\* 20ul sizes contain 0.1% BSA

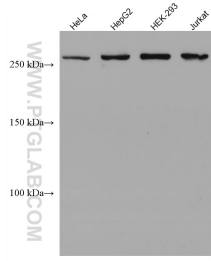
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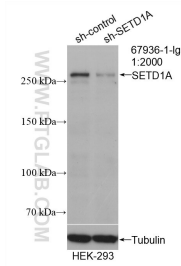
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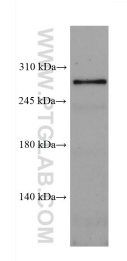
## Selected Validation Data



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.