

# Product datasheet

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# ARG43033 anti-SETD1A / SET1A antibody

Package: 100 μl Store at: -20°C

### **Summary**

Host

Product Description Rabbit Polyclonal antibody recognizes SETD1A / SET1A

Tested Reactivity Hu, Ms
Tested Application WB

Clonality Polyclonal

Isotype IgG

Target Name SETD1A / SET1A

Species Human

Immunogen Recombinant protein of Human SETD1A / SET1A.

Rabbit

Conjugation Un-conjugated

Alternate Names KMT2F; Set1/Ash2 histone methyltransferase complex subunit SET1; Histone-lysine N-

methyltransferase SETD1A; hSET1A; Lysine N-methyltransferase 2F; EC 2.1.1.43; Set1; Set1A; SET

domain-containing protein 1A

#### **Application Instructions**

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	$^{st}$ The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	

#### **Properties**

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol SETD1A

Gene Full Name SET domain containing 1A

Background The protein encoded by this gene is a component of a histone methyltransferase (HMT) complex that

produces mono-, di-, and trimethylated histone H3 at Lys4. Trimethylation of histone H3 at lysine 4 (H3K4me3) is a chromatin modification known to generally mark the transcription start sites of active genes. The protein contains SET domains, a RNA recognition motif domain and is a member of the class

V-like SAM-binding methyltransferase superfamily. [provided by RefSeq, Dec 2016]

Function Histone methyltransferase that specifically methylates 'Lys-4' of histone H3, when part of the SET1

histone methyltransferase (HMT) complex, but not if the neighboring 'Lys-9' residue is already methylated. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. The non-overlapping localization with SETD1B suggests that SETD1A and SETD1B make non-redundant

contributions to the epigenetic control of chromatin structure and gene expression. [UniProt]

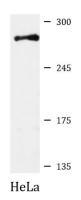
Calculated Mw 186 kDa

Cellular Localization Nucleus speckle. Chromosome. Note=Localizes to a largely non-overlapping set of euchromatic nuclear

speckles with SETD1B, suggesting that SETD1A and SETD1B each bind to a unique set of target genes.

[UniProt]

## **Images**



#### ARG43033 anti-SETD1A / SET1A antibody WB image

Western blot: 25  $\mu g$  of HeLa cell lysate stained with ARG43033 anti-SETD1A / SET1A antibody at 1:1000 dilution.