

ARG43063 anti-SETD1A / SET1A antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SETD1A / SET1A
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SETD1A / SET1A
Species	Human
Immunogen	Recombinant protein corresponding to D8-K153 of Human SETD1A / SET1A.
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
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

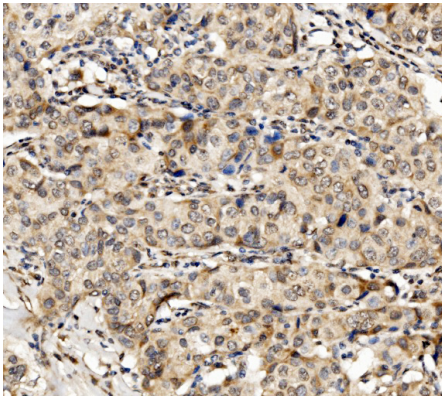
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
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 or below. 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.

Bioinformation

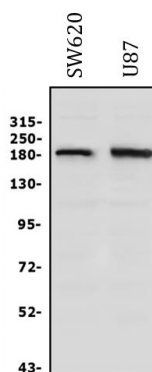
Gene Symbol	SETD1A
Gene Full Name	SET domain containing 1A
Background	The protein encoded by this gene is a component of a histone methyltransferase (HMT) complex that produces mono-, di-, and trimethylated histone H3 at Lys4. Trimethylation of histone H3 at lysine 4 (H3K4me3) is a chromatin modification 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



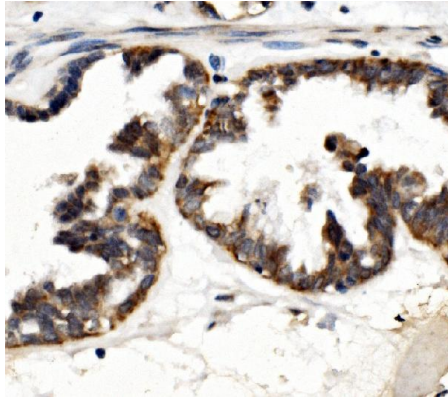
ARG43063 anti-SETD1A / SET1A antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43063 anti-SETD1A / SET1A antibody at 1 µg/ml dilution, overnight at 4°C.



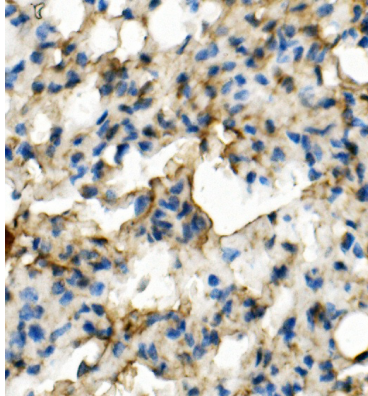
ARG43063 anti-SETD1A / SET1A antibody WB image

Western blot: 50 µg of SW620 and U87 whole cell lysates stained with ARG43063 anti-SETD1A / SET1A antibody at 0.5 µg/ml dilution, overnight at 4°C.



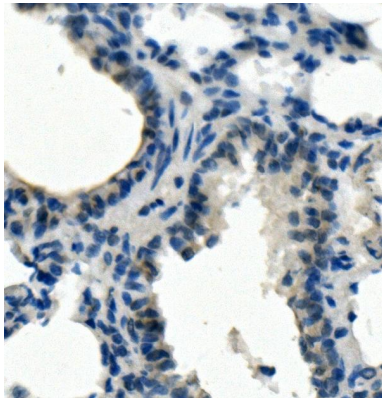
ARG43063 anti-SETD1A / SET1A antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human ovarian cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43063 anti-SETD1A / SET1A antibody at 1 μ g/ml dilution, overnight at 4°C.



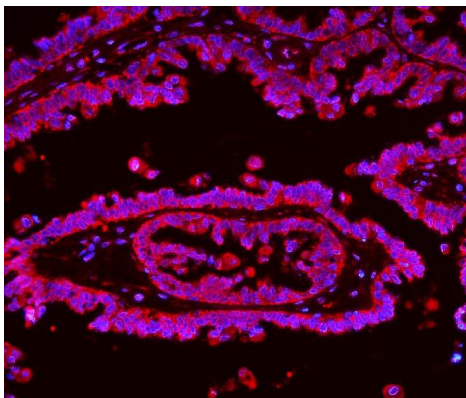
ARG43063 anti-SETD1A / SET1A antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse lung tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43063 anti-SETD1A / SET1A antibody at 1 μ g/ml dilution, overnight at 4°C.



ARG43063 anti-SETD1A / SET1A antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat lung tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43063 anti-SETD1A / SET1A antibody at 1 μ g/ml dilution, overnight at 4°C.



ARG43063 anti-SETD1A / SET1A antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human ovarian cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43063 anti-SETD1A / SET1A antibody at 2 μ g/ml dilution, overnight at 4°C. The section was counterstained with DAPI (blue).