

Rabbit SETD8 Polyclonal Antibody | anti-SETD8 antibody

SETD8 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326955	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

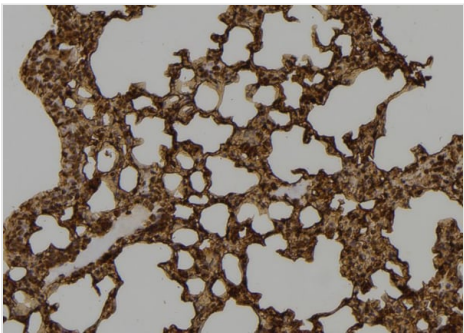
PRODUCT SYNONYMS

SETD8; Polyclonal Antibody; SETD8 Antibody; H4 K20 HMTase; H4 K20 specific histone methyltransferase; H4-K20-HMTase SETD8; Histone H4 K20 methyltransferase; Histone lysine N methyltransferase H4 lysine 20 specific; Histone-lysine N-methyltransferase SETD8; Lysine N-methyltransferase 5A; N-lysine methyltransferase SETD8; Pr SET 7; Pr SET7; PR-Set7; PR/SET domain containing protein 07; PR/SET domain containing protein 8; PR/SET domain-containing protein 07; PR/SET07; PrSET7; SET 07; SET 8; SET domain containing (lysine methyltransferase) 8; SET domain containing 8; SET domain containing lysine methyltransferase 8; SET domain containing protein 8; SET domain-containing protein 8; SET07; SET8; SETD 8; setd8; SETD8_HUMAN; anti-SETD8 antibody

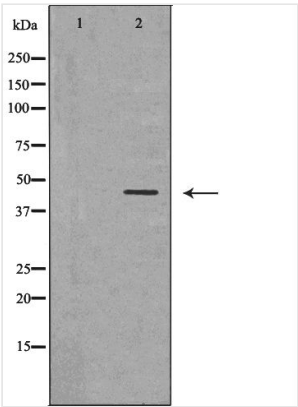
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SETD8 antibody detects endogenous levels of total SETD8
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	322
Applicable Applications for anti-SETD8 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SETD8
Subcellular Location	Nucleus. Chromosome. Specifically localizes to mitotic chromosomes. Associates with silent chromatin on euchromatic arms. Not associated with constitutive heterochromatin.
Tissue Specificity	Not detected during G1 phase. First detected during S through G2 phases, and peaks during mitosis (at protein level).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326955 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Hela cell lysate, using SETD8 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SETD8 antibody

Function: Protein-lysine N-methyltransferase that monomethylates both histones and non-histone proteins. Specifically monomethylates 'Lys-20' of histone H4 (H4K20me1). H4K20me1 is enriched during mitosis and represents a specific tag for epigenetic transcriptional repression. Mainly functions in euchromatin regions, thereby playing a central role in the silencing of euchromatic genes. Required for cell proliferation, probably by contributing to the maintenance of proper higher-order structure of DNA during mitosis. Involved in chromosome condensation and proper cytokinesis. Nucleosomes are preferred as substrate compared to free histones. Mediates monomethylation of p53/TP53 at 'Lys-382', leading to repress p53/TP53-target genes. Plays a negative role in TGF-beta response regulation and a positive role in cell migration.

Subunit Structure: Interacts with L3MBTL1. Isoform 2 interacts with SIRT2 (phosphorylated form); the interaction is direct, stimulates KMT5A-mediated methyltransferase activity at histone H4 'Lys-20' (H4K20me1) and is increased in a H2O2-induced oxidative stress-dependent manner.

Post-translational Modifications: Acetylated at Lys-172; does not change methyltransferase activity. Deacetylated at Lys-172 by SIRT2; does not change methyltransferase activity. Ubiquitinated and degraded by the DCX(DTL) complex.

Similarity: Although the SET domain contains the active site of enzymatic activity, both sequences upstream and downstream of the SET domain are required for methyltransferase activity. Belongs to the class V-like SAM-binding methyltransferase superfamily. Histone-lysine methyltransferase family. PR/SET subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1027250576
NCBI GeneID	387893
NCBI Accession #	NP_001311433.1
NCBI GenBank Nucleotide #	NM_001324504.1
UniProt Accession #	Q9NQ1; Q86W83; Q8TD09; A8K9D0
Molecular Weight	Observed: 43 kDa Predicted: 43 kDa
NCBI Official Full Name	N-lysine methyltransferase KMT5A isoform 2
NCBI Official Synonym Full Names	lysine methyltransferase 5A
NCBI Official Symbol	KMT5A
NCBI Official Synonym Symbols	SET8; SET07; SETD8; PR-Set7
NCBI Protein Information	N-lysine methyltransferase KMT5A

UniProt Protein Name	N-lysine methyltransferase KMT5A
UniProt Gene Name	KMT5A
UniProt Synonym Gene Names	PRSET7; SET07; SET8; SETD8; PR-Set7; PR/SET07

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/setd8-antibody-immunohistochemistry-western-blot-elisa/326955>