

Mouse anti-Human, mouse SET07 Monoclonal Antibody | anti-SETD8 antibody

SET07 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283438	Mouse	Human, mouse	Western Blot, Immunofluorescence, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

SET07; Monoclonal Antibody; SET07 Antibody; N-lysine methyltransferase SETD8; 211-; H4-K20-HMTase SETD8; Histone-lysine N-methyltransferase SETD8; Lysine N-methyltransferase 5A; PR/SET domain-containing protein 07; PR-Set7; PR/SET07; SET domain-containing protein 8; SETD8; KMT5A; PRSET7; SET8; anti-SETD8 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	43AT551.86
Specificity	This SET07 antibody was raised using purified recombinant GST fusion protein encoding the N-terminal region of human SET07.
Purity/Purification	Purified Mouse Monoclonal Antibody (Mab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Concentration	Vial Concentration: 0.79 (varies by lot)
Sequence Length	352
Applicable Applications for anti-SETD8 antibody	WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

TOP) Negative control of HeLa cells without PE-conjugated goat anti-mouse IgG (whole molecule). PE-conjugated goat anti-mouse IgG emits red fluorescence.
(Bottom) Immunofluorescence analysis of SET07 Antibody in HeLa cells. 0.025 mg/ml primary antibody was followed by PE-conjugated goat anti-mouse IgG (whole molecule).



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human testis tissue reacted with SET07 Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)

Western blot analysis of lysates from 293, 293T cell line (from left to right), using SET07 Antibody(43AT551. 86. 76). 43AT551. 86. 76 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

ADDITIONAL INFORMATION

References	An miR-502-binding site single-nucleotide polymorphism in the 3'-untranslated region of the SET8 gene is associated with early age of breast cancer onset. Song F, et al. Clin Cancer Res, 2009 Oct 1. PMID 19789321. Product specificity and mechanism of protein lysine methyltransferases: insights from the histone lysine methyltransferase SET8. Zhang X, et al. Biochemistry, 2008 Jun 24. PMID 18512960. Catalytic function of the PR-Set7 histone H4 lysine 20 monomethyltransferase is essential for mitotic entry and genomic stability. Houston SI, et al. J Biol Chem, 2008 Jul 11. PMID 18480059. PR-Set7 establishes a repressive trans-tail histone code that regulates differentiation. Sims JK, et al. Mol Cell Biol, 2008 Jul. PMID 18474616. SET8 plays a role in controlling G1/S transition by blocking lysine acetylation in histone through binding to H4 N-terminal tail. Yin Y, et al. Cell Cycle, 2008 May 15. PMID 18418072.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	45356743
NCBI GeneID	387893
NCBI Accession #	NP_065115.3
NCBI GenBank Nucleotide #	NM_020382.3
UniProt Accession #	Q9NQR1; Q86W83; Q8TD09; A8K9D0
Molecular Weight	42890
NCBI Official Full Name	N-lysine methyltransferase SETD8
NCBI Official Synonym Full Names	SET domain containing (lysine methyltransferase) 8
NCBI Official Symbol	SETD8
NCBI Official Synonym Symbols	SET8; KMT5A; SET07; PR-Set7
NCBI Protein Information	N-lysine methyltransferase SETD8
UniProt Protein Name	N-lysine methyltransferase SETD8
UniProt Gene Name	SETD8
UniProt Synonym Gene Names	KMT5A; PRSET7; SET07; SET8; PR-Set7; PR/SET07
UniProt Entry Name	SETD8_HUMAN

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.