

Rabbit anti-Human, mouse SET7 (SET9) Polyclonal Antibody | anti-SETD7 antibody

SET7 (SET9) Antibody (Center)

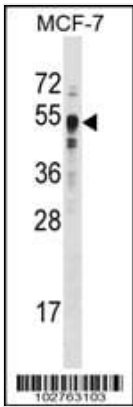
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288262	Rabbit	Human, mouse	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

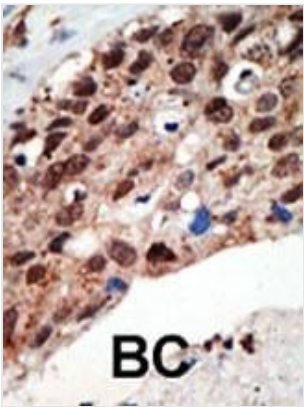
SET7 (SET9); Polyclonal Antibody; SET7 (SET9) Antibody (Center); Histone-lysine N-methyltransferase SETD7; Histone H3-K4 methyltransferase SETD7; H3-K4-HMTase SETD7; Lysine N-methyltransferase 7; SET domain-containing protein 7; SET7/9; SETD7; KIAA1717; KMT7; SET7; SET9; anti-SETD7 antibody

PRODUCT SPECIFICATIONS

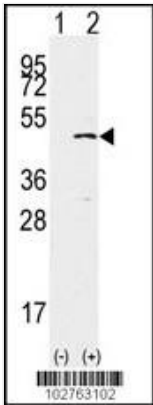
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This SET7 (SET9) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 159-189 amino acids from the Central region of human SET7 (SET9).
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	159-189
Sequence Length	366
Applicable Applications for anti-SETD7 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
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.



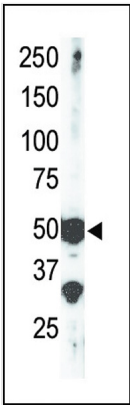
WB (Western Blot)
SET9 Antibody (S174) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the SET9 antibody detected the SET9 protein (arrow).



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary 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. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
Western blot analysis of SET9 (arrow) using rabbit polyclonal SET9 Antibody. 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the SET9 gene (Lane 2) (Origene Technologies).



WB (Western Blot)
The anti-SET9 Pab is used in Western blot to detect SET9 in mouse brain tissue lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-SETD7 antibody	Similar to acetylation and phosphorylation, histone methylation at the N-terminal tail has emerged as an important role in regulating chromatin dynamics and gene activity. Histone methylation occurs on arginine and lysine residues and is catalyzed by two families of proteins, the protein arginine methyltransferase family and the SET-domain-containing methyltransferase family. Five members have been identified in the arginine methyltransferase family. About 27 are grouped into the SET-domain family, and another 17 make up the PR domain family that is related to the SET domain family. The retinoblastoma protein-interacting zinc finger gene RIZ1 is a tumor suppressor gene and a FOUNDING member of the PR domain family. RIZ1 inactivation is commonly found in many types of human cancers and occurs through loss of mRNA expression, frame shift mutation, chromosomal deletion, and missense mutation. RIZ1 is also a tumor susceptibility gene in mice. The loss of RIZ1 mRNA in human cancers was shown to associate with DNA methylation of its promoter CpG island. Methylation of the RIZ1 promoter strongly correlated with lost or decreased RIZ1 mRNA expression in breast, liver, colon, and lung cancer cell lines as well as in liver cancer tissues.
References	Wysocka, J., et al., Genes Dev. 17(7):896-911 (2003). Xiao, B., et al., Nature 421(6923):652-656 (2003). Kwon, T., et al., EMBO J. 22(2):292-303 (2003). Nishioka, K., et al., Genes Dev. 16(4):479-489 (2002). Wilson, J.R., et al., Cell 111(1):105-115 (2002).

NCBI AND UNIPROT INFORMATION

NCBI GI #	18139549
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NCBI GeneID	80854
NCBI Accession #	NP_085151.1
NCBI GenBank Nucleotide #	NM_030648.3
UniProt Accession #	Q8WTS6; Q0VAH3; Q4W5A9; Q9C0E6; B5WWL3
Molecular Weight	40721
NCBI Official Full Name	histone-lysine N-methyltransferase SETD7 isoform 1
NCBI Official Synonym Full Names	SET domain containing (lysine methyltransferase) 7
NCBI Official Symbol	SETD7
NCBI Official Synonym Symbols	KMT7; SET7; SET9; SET7/9
NCBI Protein Information	histone-lysine N-methyltransferase SETD7
UniProt Protein Name	Histone-lysine N-methyltransferase SETD7
UniProt Gene Name	SETD7
UniProt Synonym Gene Names	KIAA1717; KMT7; SET7; SET9; H3-K4-HMTase SETD7
UniProt Entry Name	SETD7_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/set7-set9-antibody-immunohistochemistry-western-blot-elisa/288262>