

Mouse anti-Human SET 7/9 Monoclonal Antibody | anti-SET 7/9 antibody

SET 7/9 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA47978	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

SET 7/9; Monoclonal Antibody; SET 7/9 antibody; SET domain-containing protein 7; SETD7; KIAA1717; KMT7; SET7; SET9; SET7/9 Histone methyltransferase; EC 2.1.1.43; Histone H3-K4 methyltransferase SETD7; H3-K4-HMTase SETD7; SET7/9; Lysine N-methyltransferase 7; Histone-lysine N-methyltransferase SETD7; SET domain-containing protein 7 FLJ21193; H3 K4 HMTase; H4 lysine-4 specific; Histone H3 K4 methyltransferase; Histone H3 lysine 4 specific methyltransferase; Histone H4-K4 methyltransferase; Histone lysine N methyltransferase H3 lysine 4 specific SET7; Histone-lysine N-methyltransferase; Lysine methyltransferase; SET 7; SET 9; SET D7; SET domain containing protein 7; SET domain-containing protein 8; ; anti-SET 7/9 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	s4E5
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	366
Applicable Applications for anti-SET 7/9 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human SET7/9 (1-366aa) purified from E. coli
Clone Note	Anti-human SET7/9 mAb, clone s4E5, is derived from hybridization of mouse SP2/0 myeloma cells with spleen cells from BALB/c mice immunized with recombinant SET7/9.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of SET7/9 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human SET7/9 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The Recombinant human SET7/9 protein was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human SET7/9 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. The Cell lysates (5ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human SET7/9 antibody (1:2000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: 293T cell lysate Lane 2.: SET7/9 transfected 293T cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-SET 7/9 antibody	Set7/9 is a histone methyltransferase (HMTase) that transfers methyl group to Lys4 of histone H3, in complex with S-adenosyl-L-methionine (AdoMet). The methylation of lysine residues of histones plays a critical role in the regulation of chromatin structure and gene expression. Acetylation, phosphorylation and methylation of the amino-terminal tails of histone are thought to be involved in the regulation of chromatin structure and function. The enzymes identified in the methylation of specific lysine residue on histones belong to the SET family with just one exception. Set7/9, unlike most other SET proteins, is exclusively a mono-methylase.
Product Categories/Family for anti-SET 7/9 antibody	Signal Transduction
References	Bing X, et al., (2003) Nature 421: 652-56.; Taewoo K, et al., (2003) EMBO. 22: 292-303.; Nishioka K, et al., (2002) Genes Dev. 16: 479-89

NCBI AND UNIPROT INFORMATION

NCBI GI #	18139549
NCBI GeneID	80854
NCBI Accession #	NP_085151
NCBI GenBank Nucleotide #	NM_030648.3
UniProt Accession #	Q8WTS6; Q0VAH3; Q4W5A9; Q9C0E6; B5WWL3
Molecular Weight	40,721 Da
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

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.