

Human Histone-Lysine N-Methyltransferase SETD7 (SETD7) ELISA Kit | SETD7 elisa kit

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CATALOG #
AAA330894

REACTIVITY
Human

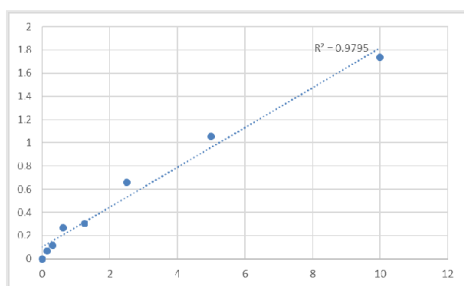
PRODUCT SYNONYMS

Histone-Lysine N-Methyltransferase SETD7 (SETD7); Human Histone-Lysine N-Methyltransferase SETD7 (SETD7) ELISA Kit; SETD7; FLJ21193; KIAA1717; KMT7; SET7; SET7/9; SET9; H3-K4-HMTase; SET domain-containing protein 7; histone H3-K4 methyltransferase; histone H3-lysine 4-specific methyltransferase; SETD7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Histone-lysine N-methyltransferase SETD7 (SETD7) ELISA Kit has high sensitivity and excellent specificity for detection of Human SETD7. No significant cross-reactivity or interference between Human SETD7 and analogues was observed.
Sequence Length	366
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Histone-lysine N-methyltransferase SETD7 (SETD7) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SETD7 elisa kit	Description: This Human Histone-lysine N-methyltransferase SETD7 (SETD7) ELISA Kit employs a two-site sandwich ELISA to quantitate SETD7 in samples. An antibody specific for SETD7 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SETD7 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SETD7 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SETD7 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Methylation of histone H3 at lysine-9 (K9) by SUV39H1 and the subsequent recruitment of heterochromatin protein-1 (HP1) is linked to gene silencing. In addition to K9, H3 methylation also occurs at K4, K27, and K36. SET7 methylates H3-K4 in vitro and in vivo and that methylation of H3-K4 and methylation of H3-K9 inhibit each other. Furthermore, H3-K4 methylation and H3-K9 methylation by SET7 and SUV39H1, respectively, were found to have differential effects on subsequent histone acetylation by p300. This study provided a molecular explanation to the differential effects of H3-K4 and H3-K9 methylation on transcription. Set9 regulates the expression of p53 target genes in a manner dependent on the p53 methylation site.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	18139549
NCBI GeneID	80854
NCBI Accession #	NP_085151.1
NCBI GenBank Nucleotide #	NP_085151.1
UniProt Accession #	Q8WTS6
NCBI Official Full Name	histone-lysine N-methyltransferase SETD7 isoform 1
NCBI Official Synonym Full Names	SET domain containing 7, histone lysine methyltransferase
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/human-elisa-kits/histone-lysine-n-methyltransferase-setd7-setd7/330894>