SETD7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SETD7, Polyclonal Antibody
Full Product Name	SETD7 Antibody
Product Gene Name	anti-SETD7 antibody
Product Synonym Names	Histone-lysine N-methyltransferase SETD7 (EC 2.1.1.43)(Histone H3-K4 methyltransferase SETD7)(H3-K4-HMTase SETD7)(Lysine N-methyltransferase 7)(SET domain-containing protein 7)(SET7/9)
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	This antibody detects endogenous levels of SETD7 at Human, Mouse
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	40,721 Da
OMIM	606594
3D Structure	ModBase 3D Structure for Q8WTS6
Immunogen	Synthesized peptide derived from human SETD7
Modification	Unmodified/Total
Product Categories/Family for anti-SETD7 antibody	Primary Antibodies
Applications Tested/Suitable for anti-SETD7 antibody	Western Blot (WB)
Application Notes for anti-SETD7 antibody	WB: 1:500-2000
Related Product Information for anti-SETD7 antibody	MBS9522045 is an antibody targeting SETD7. Also known as SETD7 Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-SETD7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SETD7. It may not necessarily be applicable to this product.

NCBI GI #	83035135

NCBI GeneID	80854
NCBI Accession #	NP_085151.1
UniProt Primary Accession #	Q8WTS6
UniProt Secondary Accession #	Q0VAH3; Q4W5A9; Q9C0E6; B5WWL3
UniProt Related Accession #	Q8WTS6
GenBank Nucleotide #	NM_030648
NCBI Official Full Name	Homo sapiens SET domain containing (lysine methyltransferase) 7 (SETD7), mRNA
NCBI Official Synonym Full Names	SET domain containing (lysine methyltransferase) 7
NCBI Official Symbol	SETD7
NCBI Official Synonym Symbols	KMT7; SET7; SET9; SET7/9
UniProt Protein Name	Histone-lysine N-methyltransferase SETD7
UniProt Synonym Protein Names	Histone H3-K4 methyltransferase SETD7; H3-K4-HMTase SETD7; Lysine N-methyltransferase 7; SET domain-containing protein 7; SET7/9
Protein Family	Histone-lysine N-methyltransferase
UniProt Gene Name	SETD7
UniProt Synonym Gene Names	KIAA1717; KMT7; SET7; SET9; H3-K4-HMTase SETD7
UniProt Entry Name	SETD7_HUMAN
NCBI Protein Information	histone-lysine N-methyltransferase SETD7; H3-K4-HMTase SETD7; SET domain-containing protein 7; histone H3-K4 methyltransferase SETD7; histone H3-lysine 4-specific methyltransferase; lysine N-methyltransferase 7
UniProt Comments for SETD7	SETD7: Histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. Plays a central role in the transcriptional activation of genes such as collagenase or insulin. Recruited by IPF1/PDX-1 to the insulin promoter, leading to activate transcription. Has also methyltransferase activity toward non-histone proteins such as p53/TP53, TAF10, and possibly TAF7 by recognizing and binding the [KR]-[STA]-K in substrate proteins. Monomethylates 'Lys-189' of TAF10, leading to increase the affinity of TAF10 for RNA polymerase II. Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation. Interacts with IPF1/PDX-1. Widely expressed. Expressed in pancreatic islets. Belongs to the histone-lysine methyltransferase family. SET7 subfamily. Protein type: Amino Acid Metabolism - lysine degradation; EC 2.1.1.43; Methyltransferase, protein lysine; Methyltransferase Chromosomal Location of Human Ortholog: 4q28 Cellular Component: nucleoplasm; nucleolus; chromosome Molecular Function: protein binding; p53 binding; protein-lysine N-methyltransferase activity; histone-lysine N-methyltransferase activity Biological Process: establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; regulation of transcription, DNA-dependent; peptidyl-lysine di-methylation; peptidyl-lysine mono-methylation; chromatin modification; response to DNA damage stimulus
Research Articles on SETD7	**1.** Set7-dependent gene expression changes that occurred independent of H3K4m1 may involve transcription factor lysine methylation events.
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