SET7 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	SET7 (SETD7), Blocking Peptide
Full Product Name	SET7 Antibody (C-term) Blocking Peptide
Product Gene Name	SETD7 blocking peptide
Product Synonym Gene Name	KIAA1717; KMT7; SET7; SET9
Product Synonym Names	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
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the C-term region of human SET7. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	SET7 peptide (MBS9218746) is used for blocking the activity of SET7 antibody (MBS9202229)
Molecular Weight	40,721 Da
OMIM	606594
Cellular Location	Nucleus. Chromosome.
Tissue Location	Widely expressed. Expressed in pancreatic islets
Related Product Information for SETD7 blocking peptide	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.
Other Notes	Small volumes of SETD7 blocking peptide 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.
Searchable Terms for SETD7 purchase	MBS9218746 is a blocking peptide targeting SETD7. Also known as SET7 Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	25091217
NCBI GeneID	80854
NCBI Accession #	Q8WTS6.1
UniProt Primary Accession #	Q8WTS6
UniProt Secondary Accession #	Q0VAH3; Q4W5A9; Q9C0E6; B5WWL3
UniProt Related Accession #	Q8WTS6

NCBI Official Full Name	Histone-lysine N-methyltransferase SETD7
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
Research Articles on SETD7	**1.** Based on our results miR-153 inhibits proliferation and suppresses EMT and the invasive potential of ovarian cancer cells through downregulation of SET7 and ZEB2, supporting the pursuit of miR-153 as a potential target for ovarian cancer intervention.
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