

SETD8 recombinant protein

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CATALOG # AAA72893	HOST Sf9 insect cells	APPLICATIONS Western Blot
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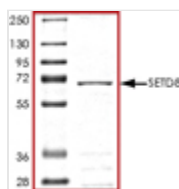
PRODUCT SYNONYMS

SETD8; SETD8 recombinant protein; PR-Set7; SET07; SET8

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Length	3083
Applicable Applications for SETD8 recombinant protein	WB (Western Blot)
Type	Recombinant Fusion Protein
Species	Human
Tag Information	GST tag
Expression System	Sf9 insect cells using baculovirus
Source Note	Recombinant full-length human SETD8 was expressed by baculovirus in Sf9 insect cells
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for SETD8 recombinant protein	Recombinant full-length human SETD8 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: SETD8 or SET domain containing lysine methyltransferase 8 is a lysine methyltransferase that monomethylates p53 in human cell lines. The monomethylation by SETD8 suppresses p53-mediated transcriptional activation of highly responsive target genes, such as p21 (CDKN1A) and PUMA (BBC3) but it has little influence on weak p53 targets (1). Depletion of SET8 augmented the proapoptotic and checkpoint activation functions of p53, and SETD8 expression is downregulated during DNA damage. SETD8 is a Wnt signaling mediator and is recruited by LEF1/TCF4 to regulate the transcription of Wnt-activated genes, possibly through H4K20 monomethylation at the target gene promoters (2).
Product Categories/Family for SETD8 recombinant protein	Acetyl/Methyltransferases Proteins ; Signaling Proteins - Acetyl/Methyltransferase Proteins
References	1. Shi, X. et al: Modulation of p53 function by SET8-mediated methylation at lysine 382. Molec. Cell 27: 636-646, 2007. 2. Li, Z. et al: Histone H4 Lys 20 monomethylation by histone methylase SET8 mediates Wnt target gene activation. Proc Natl Acad Sci U S A. 2011 Feb 22;108(8):3116-23.

NCBI AND UNIPROT INFORMATION

NCBI GI #	29792162
NCBI GeneID	387893
UniProt Accession #	Q9NQR1 ; Q86W83 ; Q8TD09 ; A8K9D0
Molecular Weight	~68 kDa
NCBI Official Full Name	Homo sapiens SET domain containing (lysine methyltransferase) 8, mRNA
NCBI Official Synonym Full Names	SET domain containing (lysine methyltransferase) 8
NCBI Official Symbol	SETD8
NCBI Official Synonym Symbols	SET8; KMT5A; SET07; PR-Set7
NCBI Protein Information	N-lysine methyltransferase SETD8; PR/SET07; H4-K20-HMTase SETD8; lysine N-methyltransferase 5A; SET domain-containing protein 8; PR/SET domain containing protein 8; PR/SET domain-containing protein 07; histone-lysine N-methyltransferase SETD8; H4-K20-specific histone methyltransferase; H4K20-specific histone methyltransferase splice variant Set8b
UniProt Protein Name	N-lysine methyltransferase SETD8
UniProt Gene Name	SETD8
UniProt Synonym Gene Names	KMT5A; PRSET7; SET07; SET8; PR-Set7; PR/SET07
UniProt Entry Name	SETD8_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/setd8-recombinant-protein-sf9-insect-cells-wb-western-blot/72893>