

Recombinant Human SETD8, GST-tagged

Cat. No. SETD8-6964H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SETD8 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	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. 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.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~68 kDa
Purity	>85%

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Applications	Western Blot
Storage	Store at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 $\mu\text{g}/\mu$
GENE INFORMATION	
Gene Name	SETD8 SET domain containing (lysine methyltransferase) 8 [Homo sapiens]
Official Symbol	SETD8
Synonyms	SETD8; SET domain containing (lysine methyltransferase) 8; N-lysine methyltransferase SETD8; KMT5A; PR Set7; SET07; SET8; 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; PR-Set7;
Gene ID	387893
mRNA Refseq	NM_020382
Protein Refseq	NP_065115
MIM	607240
UniProt ID	Q9NQR1
Chromosome	12q24.31

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Location

Pathway

Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem; p53 pathway, organism-specific biosystem;

Function

histone-lysine N-methyltransferase activity; methyltransferase activity; p53 binding; protein binding; protein-lysine N-methyltransferase activity; transcription corepressor activity; transferase activity;

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