

Product datasheet for TP505628

Setd7 (NM_080793) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse SET domain containing (lysine methyltransferase) 7 (Setd7), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR205628 protein sequence Red =Cloning site Green =Tags(s)
	MDSDDDEVVEEAVEGHLDDDDGLPHGFCTVTYSSTRFEGNFVHGEKNGRGRKFFFFDGSTLEGYYVDDALQG QGVYTYVDGGVLQGTYYVDGELNGPAQEYSDGRLIFKQYKDNNRHGVCWIHYPDGGSLVGEVNEDEGEMT GEKIAYVYPDQRTALYGKFIGEMLEGKLATLMATEEGRPHFEVTSGSSVYHFDKSTSSCISSDALLPDP YESERVYVADSLISSAGEGLFSKVAVGPNTVMMSFYNGVRITHQEVDSDRDWALNGNTLSLDEETVIDVPEP YNHVSKEYCASLGHKANHSFTPNCVYDLFVHPRFGPIKCIRTLRAVEAEELTVAYGYDHSPPGKSGPEAP EWYQVELKAFQATQQK
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	40.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_542983
Locus ID:	73251
UniProt ID:	Q8VHL1



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RefSeq Size: 7356

Cytogenetics: 3 C

RefSeq ORF: 1101

Synonyms: 1600028F23Rik; H3K4MT; KMT7; mKIAA1717; Set7; Set7/9

Summary: 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.
[UniProtKB/Swiss-Prot Function]