

Product datasheet for TP503221

Sirt7 (NM_153056) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse sirtuin 7 (Sirt7), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR203221 protein sequence Red =Cloning site Green =Tags(s)
	MSITRLHEQKLVQHVVSQNC DGLHLRSGLPRTAISELHGNMYIEVCTSCIPNREYVRVFDV TERTALHRH LTGRTCHKCGTQLRDTIVHFGERTLGQPLNWEAATEAASKADTILCLGSSLKVLKYPRLWCMTKPPSR RPKLYIVNLQWTPKDDWAALKLHGKCDDVMQLLMNELGLEIPVYNRWQDPIFSLATPLRAGEEGSHSRKS LCRSREEAPPGDQSDPLASAPPILGGWFGRC AKRAKRKKVA
	TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	28.4 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_694696
Locus ID:	209011
UniProt ID:	Q8BKJ9
RefSeq Size:	1715



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Cytogenetics: 11 E2

RefSeq ORF: 759

Synonyms: MGC31235; MGC37560

Summary: NAD-dependent protein deacetylase that specifically mediates deacetylation of histone H3 at 'Lys-18' (H3K18Ac). In contrast to other histone deacetylases, displays selectivity for a single histone mark, H3K18Ac, directly linked to control of gene expression. H3K18Ac is mainly present around the transcription start site of genes and has been linked to activation of nuclear hormone receptors. SIRT7 thereby acts as a transcription repressor. Moreover, H3K18 hypoacetylation has been reported as a marker of malignancy in various cancers and seems to maintain the transformed phenotype of cancer cells. These data suggest that SIRT7 may play a key role in oncogenic transformation by suppresses expression of tumor suppressor genes by locus-specific deacetylation of H3K18Ac at promoter regions (By similarity). Required to restore the transcription of ribosomal RNA (rRNA) at the exit from mitosis. Promotes the association of RNA polymerase I with the rDNA promoter region and coding region. Stimulates transcription activity of the RNA polymerase I complex. May also deacetylate p53/TP53 and promotes cell survival, however such data need additional confirmation.[UniProtKB/Swiss-Prot Function]