

Product datasheet for TP506911

Smyd2 (NM_026796) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse SET and MYND domain containing 2 (Smyd2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR206911 protein sequence Red=Cloning site Green=Tags(s)

MRAEARGGLERFCSAGKGRGLRALRPFHVGDLLFSCPAYACVLTVGERGHHCECCFARKEGLSKCGRCKQ
AFYCDVECQKEDWPLHKLECSSMVVLGENWNPSETVRLTARILAKQKIHPERTPSEKLLAVREFESHLDK
LDNEKKDLIQSDIAALHQFYKYLEFPDHSSLVVLFAQVNCNGFTIEDEELSHLGS AIFPDVALMNHSCC
PNVIVTYKGT LAEVRVQEIHPGDEVFTSYIDL LLYPTEDRNDRLRDSYFFTCCERECTTKDKDKAKVEVR
KLSSPPQAEAIRDMVRYARNVIEEFRAKHYSPELLEICELSQEKMSSVFEDSNVYMLHMMYQAMGVC
LYMQDWEGALKYGQKIIPYSKHYPVYSLNVASMWLKLGRLYMGLENKAAGEKALKKAIIMEVAHGKDH
PYISEIKQEIESH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	49.6 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_081072
Locus ID:	226830



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UniProt ID:	Q8R5A0
RefSeq Size:	1619
Cytogenetics:	1 H6
RefSeq ORF:	1302
Synonyms:	1110020E07Rik; 4930402C15; KMT3C; Zmynd14
Summary:	Protein-lysine N-methyltransferase that methylates both histones and non-histone proteins, including p53/TP53 and RB1. Specifically methylates histone H3 'Lys-4' (H3K4me) and dimethylates histone H3 'Lys-36' (H3K36me2). Shows even higher methyltransferase activity on p53/TP53. Monomethylates 'Lys-370' of p53/TP53, leading to decreased DNA-binding activity and subsequent transcriptional regulation activity of p53/TP53. Monomethylates RB1 at 'Lys-860'. [UniProtKB/Swiss-Prot Function]