

Product datasheet for TP521564

Kdm4a (NM_001161823) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse lysine (K)-specific demethylase 4A (Kdm4a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR221564 representing NM_001161823 Red=Cloning site Green=Tags(s)

MASESETLNPSARIMTFYPTMEEFRNFSRYIAYIESQGAHRAGLAKWPPKEWKPRTSYDDIDDLVIPAP
IQQLVTGQSGFLTQYNIQKKAMTVREFRKIANS DKYCTPRYSEFEELERKYWKNLTFNPPIYGADVNGTL
YEQHVDEWNIGRLKTILDLEKESGITIEGVNTPYLYFGMWKTSFAWHTEDMDLYSINYLFHGEPKSWYS
VPPEHGKRLERLAKGFFPGSAQSCEAFLRHKMTLISPLMLKKYGIPFDKVTQEAGEFMITFPYGYHAGFN
HGFNCAESTNFATRRWIEYGKQAVLCSCRKDMVKISMDVFVRRFQPERYKLWKAGKDSMVIDHTLPTPEA
AEFLKDSGGLTPRAGSEECPEEDVEAADQGEEDVKRSLAKHRIGTKRHRVCLEIPQEVSQSELPKEEL
SSGQYEMTECPATLAPVRPTHSSVRQVEDSLPFPDYSDPTEVKFEELKNVKLEEEDEEPEAAALDSL
NPASVGGRLVFGSGKKKSSSLGSTSSQDSVSSDSETAESVSCQGQEKTVLTVHVSARGDGKAATGEP
VKKKRSAPRSISEQELAEVADEYMLSLEENKTKGRRQPLSKLPRHHPLVLQECGSDDETSEQLTPEEEA
EETEAWAKPLSQLWQNRPPNFEEAEKEFNEIMAQQAPHCAVCMIFQTYHQVEFGAFSQCSDGASEPAAQT
RTKPLIPEMCFSTTGCSTDINLSTPYLEEDGTSMLVSCCKKSVRVHASCYGVPPAKASEEWMCSRCSANA
LEEDCCLCSLRGGALQRANDDRWVHVSCAIVAEARFVNIAERSPVVSKIPLPRFKLKC VFCKRRKR
AGCCVQC SHGRCP TAFHVSCAQAAGVMMQPDDWPFVVFITCFRHKIPNLERAKGALLSITAGQKVISKHK
NGRFYQCEVVRLTTETFEVNFDDGSFSDNLYPEDIVSQDCLQLGPPAEGEVVQVRWTDGQVYGAKFVAS
HPIQMYQVEFEDGSQLVVKRDDVYTLDEELPKRVKSRLSVASDMRFNEIFTEKEVKQEKKRQRVINSRYR
EDYIEPALYRAIME

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	120.8 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_001155295
Locus ID:	230674
UniProt ID:	Q8BW72
RefSeq Size:	4616
Cytogenetics:	4 54.31 cM
RefSeq ORF:	3192
Synonyms:	D4Ertd222e; JHDM3A; Jmjd2; Jmjd2a; mKIAA0677
Summary:	Histone demethylase that specifically demethylates 'Lys-9' and 'Lys-36' residues of histone H3, thereby playing a central role in histone code (PubMed:24953653). Does not demethylate histone H3 'Lys-4', H3 'Lys-27' nor H4 'Lys-20'. Demethylates trimethylated H3 'Lys-9' and H3 'Lys-36' residue, while it has no activity on mono- and dimethylated residues. Demethylation of Lys residue generates formaldehyde and succinate. Participates in transcriptional repression of ASCL2 and E2F-responsive promoters via the recruitment of histone deacetylases and NCOR1, respectively (By similarity).[UniProtKB/Swiss-Prot Function]