

## Product datasheet for TP511981

### Kdm6a (NM\_009483) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse lysine (K)-specific demethylase 6A (Kdm6a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211981 representing NM_009483 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MKSCGVSLATAAAAAAAAAAFGDEEKKMAAGKASGESEEEASPSLTAEREALGGLDSRLFGFVRFHEDGAR  
MKALLGKAVRCYESLILKAEGKVESDFFCQLGHFNLLLEDYPKALSAYQRYSSLQSDYWKNAAFLYGLGL  
VYFHYNFAQWAIKAFQEVLYVDPSCRAKEIHLRLGLMFKVNTDYESSLKHFLALVDCNPCTLSNAEQ  
FHIAHLYETQRKYHSAKEAYEQLLQTENLSAQVKATILQQLGWMHHTVDLLGDKATKESYAIQYLQKSLE  
ADPNSGQSWYFLGRCYSSIGKVQDAFISYRQSIDKSEASADTWCSIGVLYQQQNQPM DALQAYICAVQLD  
HGHAAWMDLGTLYESCNPQDAIKCYLNATRSKNCNNTSGLAARIKYLQAQLCNLPQGSLQNKTKLLPS  
IEEAWSLPIPAELTSRQGAMNTAQQNTSDNWSGGNAPPPVEQQTHSWCLTPQKLQHLEQLRANRNNLNP  
QKLMLEQLESQFVLMQQHQMRQTGVAQVRPTGILNGPTVDSSLPTNSVSGQQPQLPLTRMPSVSPGVHT  
ACPRQTLANGPFSAGHVPCSTSRTLGSTDVTLIGNNHVTGSGSNGNVPYLQRNAPLPHNRTNLTSSTEE  
PWKNQLSNSTQGLHKGPSHLAGPNERPLSSTGPSQHLQAAGSGIQNQNGHPTLPSNSVTQGAALNHL  
SHTATSGGQQGITLTKESKPSGNTLTPETSRQTGETPNSTASVEGLPNHVHQMADAVCSPSHGDSKSP  
GLLSSDNPQLSALLMGKANNVPGTCDKVNNIHPTVHTKTDNSVASSPSSAISTATPSPKSTEQT TNS  
VTSLNSPHSGLHTINGEGMEESQSPIKTDLLLVSHPSPQIIPMSVSIYPSAEVLKACRN LGKNLSN  
SSILLDKPPRPPSPYPPLPKDKLNPPTPSIYENKRDAFFPLHQFCTNPNNPVTVIRGLAGALKLD  
LGLFSTKTLVEANNEHMVEVRTQLLQPADENWDPTGTKKIWHCESNRSHHTIAKYAQYQASSFQESLREE  
NEKRSHHKDHSDESTSSDNSGKRRKGFPTIKFGTNI DLSDDKKWKLQLHELTKLPAFVRVVSAGNLLS  
HVGHTILGMNTVQLYMKVPGSRTPGHQENNNFCSVNINIGPGDCEWFWPEGYWGV LNDFCEKNNLNFLM  
GSWWPNLEDLYEANVPVYRFIQRPGDLVWINAGTVHVVQAIGWCN NIAWNVGPLTACQYKLAVERYEWNK  
LQNVKSIVPMVHLSWNMARNIKVSDPKLFEMIKYCLLRTLKQCQTLREALIAAGKEIHWGRTKEEPAHY  
CSICEVEVFDLLFVTNESNSRKYIVHCQDCARKTSGNLENFVVLEQYKMEDLMQVYDQFTLVSEINMLL  
HYHPPHLDIVPWTLNMRPFLFRK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag: C-MYC/DDK



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<b>Predicted MW:</b>	157.9 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_033509</a>
<b>Locus ID:</b>	22289
<b>UniProt ID:</b>	<a href="#">O70546</a> , <a href="#">Q3TPN3</a>
<b>RefSeq Size:</b>	5309
<b>Cytogenetics:</b>	X 13.45 cM
<b>RefSeq ORF:</b>	4272
<b>Synonyms:</b>	Utx
<b>Summary:</b>	Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code. Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-27'. Plays a central role in regulation of posterior development, by regulating HOX gene expression. Demethylation of 'Lys-27' of histone H3 is concomitant with methylation of 'Lys-4' of histone H3, and regulates the recruitment of the PRC1 complex and monoubiquitination of histone H2A (By similarity). Plays a demethylase-independent role in chromatin remodeling to regulate T-box family member-dependent gene expression (PubMed:21095589).[UniProtKB/Swiss-Prot Function]