

Product datasheet for **TP509875**

Alkbh8 (NM_026303) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse alkB homolog 8, tRNA methyltransferase (Alkbh8), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR209875 representing NM_026303 Red =Cloning site Green =Tags(s)

MNINHKGVLKLTKMEKKFLRKQSKARHVLLKHEGIQAVSYPTQSLVIANGGLGNGVSRKQLLLTLEKCGP
VEALLMPPNKPYPYAFVIFQTIIESKKAYFTLNGKEIDDLQKIFLYLNFVEKAQWKNMGLEALPPGLLV
EEIISSEEEKLLESVNWTEDTGNQNFQSLKHRRVKHFGYEFHYESNTVDKDKPLPGGLPEVCSSILEK
LLKEGYIKHKPDQLTINQYEPGHGIPAHDTHSAFEDEIISLSLGSIVMDFKHPEGVTVQVMLPRRSL
VMTGESRYLWTHGITPRKFDTVQASEQFKGGIITSDIGDLTSLKRGMRSTSFTFRKVRMPNCNSYSSVCD
RQRKATPPSLTESSKEALELEQKHVHQVYNEIASHSSTRHSPWPRIVEFLKALPSGSIVADIGCGNGKY
LGINKDLYMIGCDRSQNLVDICRERQFQALVCDALAVPVRSGSCDACISIAVIHHFATAERRVEALQELA
RLLRPGGQALIYVWAMEQEYKNQKSKYLGRKRISQGDKDELNSATSTEEFLVNQTPEGVNEDPALSVNSS
SITKEEYKSRKVPNSELPIHINRTCFHSQDVLVPWHLKRNP GKDKAIEPSGVAGCPDPSPV FHRYYHVF
CDGELEASCQAVGDVSIQSYYDQGNWCVVLQKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	74.8 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.



[View online »](#)

RefSeq:	NP_080579
Locus ID:	67667
UniProt ID:	Q80Y20
RefSeq Size:	2300
Cytogenetics:	9 A1
RefSeq ORF:	1992
Synonyms:	4930562C03Rik; 8030431D03Rik; 9430088N01Rik; Abh8
Summary:	<p>Catalyzes the methylation of 5-carboxymethyl uridine to 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in tRNA via its methyltransferase domain (PubMed:20123966). Catalyzes the last step in the formation of 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in target tRNA (PubMed:20123966). Has a preference for tRNA(Arg) and tRNA(Glu), and does not bind tRNA(Lys) (By similarity). Binds tRNA and catalyzes the iron and alpha-ketoglutarate dependent hydroxylation of 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in tRNA via its dioxygenase domain, giving rise to 5-(S)-methoxycarbonylhydroxymethyluridine; has a preference for tRNA(Gly) (PubMed:20583019). Required for normal survival after DNA damage (By similarity). May inhibit apoptosis and promote cell survival and angiogenesis (By similarity).[UniProtKB/Swiss-Prot Function]</p>