

Product datasheet for **CF815646**

ALKBH5 Mouse Monoclonal Antibody [Clone ID: OTI5B4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5B4
Applications:	WB
Recommended Dilution:	WB 1:5000
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment of Human ALKBH5 (NP_060228) produced in Ecoli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Shipped at -20°C or with ice packs, Upon delivery store at -20°C. Dilute in PBS(pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	51.4KD
Gene Name:	alkB homolog 5, RNA demethylase
Database Link:	NP_060228 Entrez Gene 54890 Human Q6P6C2

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Background:

Dioxygenase that demethylates RNA by oxidative demethylation: specifically demethylates N(6)-methyladenosine (m6A) RNA, the most prevalent internal modification of messenger RNA (mRNA) in higher eukaryotes (PubMed:23177736, PubMed:24489119, PubMed:24616105, PubMed:24778178). Can also demethylate N(6)-methyladenosine in single-stranded DNA (in vitro) (PubMed:24616105). Requires molecular oxygen, alpha-ketoglutarate and iron (PubMed:21264265, PubMed:23177736, PubMed:24489119, PubMed:24616105, PubMed:24778178). Demethylation of m6A mRNA affects mRNA processing and export (PubMed:23177736). Required for the late meiotic and haploid phases of spermatogenesis by mediating m6A demethylation in spermatocytes and round spermatids: m6A demethylation of target transcripts is required for correct splicing and the production of longer 3' UTR mRNAs in male germ cells (By similarity).[UniProtKB/Swiss-Prot Function]

Synonyms:

ABH5; OFOXD; OFOXD1

Product images:

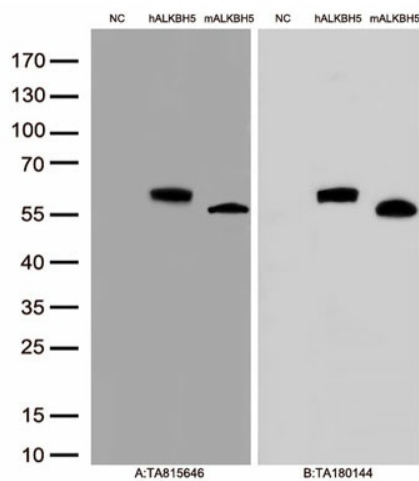
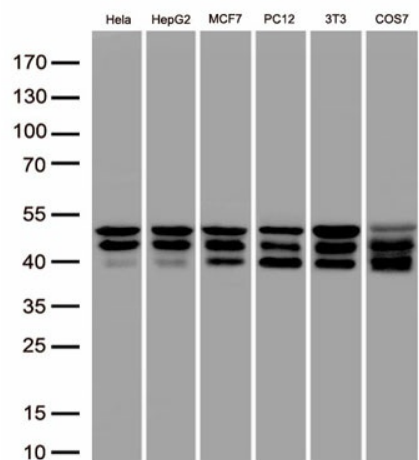


Figure A, Western blot analysis of overexpressed lysates(15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC) , human ALKBH5 plasmid ([RC209110], hALKBH5), mouse ALKBH5 plasmid ([MR206184], mALKBH5) using anti-ALKBH5 antibody [TA815646](1:5000). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)



Western blot analysis of extracts (50ug per lane) from 6 cell lines lysates by using anti-ALKBH5 monoclonal antibody([TA815646], 1:1000)