

## **Product datasheet for TA815645S**

### OriGene Technologies, Inc.

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### **ALKBH5 Mouse Monoclonal Antibody [Clone ID: OTI7B6]**

#### **Product data:**

**Product Type:** Primary Antibodies

Clone Name: OTI7B6

**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:** PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Concentration: 1 mg/ml

**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

O6P6C2

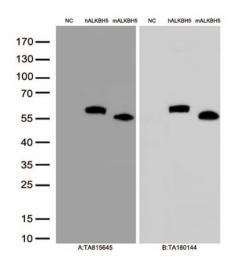


#### Background:

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:**



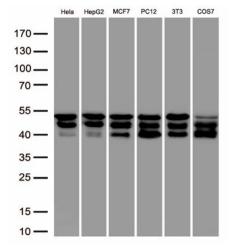


Figure A, Western blot analysis of overexpressed lysates(15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human ALKBH5 plasmid ([RC209110], hALKBH5), mouse ALKBH5 plasmid ([MR206184], mALKBH5) using anti-ALKBH5 antibody [TA815645](1:5000). Figure B, Western blot analysis 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([TA815645], 1:1000)