

For Research Use Only

# ALKBH5 Monoclonal antibody

Catalog Number: 67811-1-Ig

Featured Product

3 Publications



## Basic Information

<b>Catalog Number:</b> 67811-1-Ig	<b>GenBank Accession Number:</b> BC062339	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 54890	<b>CloneNo.:</b> 2D2B2
<b>Source:</b> Mouse	<b>Full Name:</b> alkB, alkylation repair homolog 5 (E. coli)	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:500-1:2000
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 458 aa, 51 kDa	
<b>Immunogen Catalog Number:</b> AG10490	<b>Observed MW:</b> 40-44 kDa	

## Applications

**Tested Applications:**  
IHC, WB, ELISA

**Cited Applications:**  
IHC, WB

**Species Specificity:**  
Human, Mouse, Rat

**Cited Species:**  
human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : 4T1 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, HeLa cells

IHC : mouse testis tissue,

## Background Information

ALKBH5, also named as ABH5 and OFOXD1, is a Dioxygenase that demethylates RNA by oxidative demethylation. It is a mammalian demethylase that oxidatively reverses m6A in mRNA in vitro and in vivo. ALKBH5 is required for spermatogenesis. There're some isoforms of ALKBH5 with MW 40-44 kDa and 52 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yang Wang	36333630	Apoptosis	WB
Yugeng Fan	38221546	Sci Rep	IHC, WB
Zhiyong Yu	37321527	Cell Signal	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

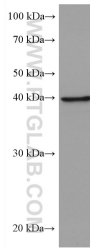
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

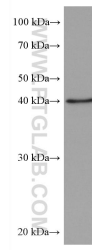
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

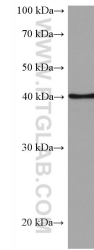
## Selected Validation Data



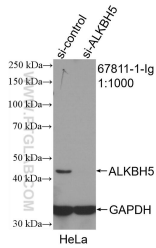
HSC-T6 cells were subjected to SDS PAGE followed by western blot with 67811-1-Ig (ALKBH5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



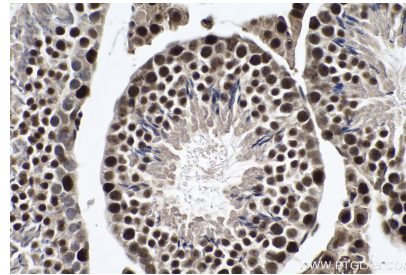
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 67811-1-Ig (ALKBH5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



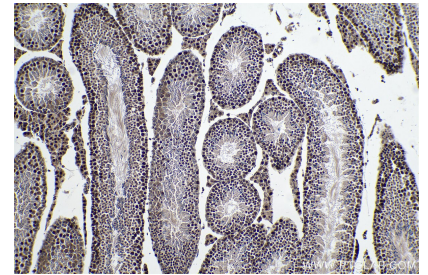
4T1 cells were subjected to SDS PAGE followed by western blot with 67811-1-Ig (ALKBH5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of ALKBH5 antibody (67811-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ALKBH5 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 67811-1-Ig (ALKBH5 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 67811-1-Ig (ALKBH5 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).