

ALKBH5 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18410c

Specification

ALKBH5 Antibody (Center) - Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q6P6C2
Other Accession	D3ZKD3 , Q3TSG4 , E1BH29 , NP_060228.3
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	302-330

ALKBH5 Antibody (Center) - Additional Information

Gene ID 54890

Other Names

RNA demethylase ALKBH5, 11411-, Alkylated DNA repair protein alkB homolog 5, Alpha-ketoglutarate-dependent dioxygenase alkB homolog 5, ALKBH5, ABH5, OFOXD1

Target/Specificity

This ALKBH5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 302-330 amino acids from the Central region of human ALKBH5.

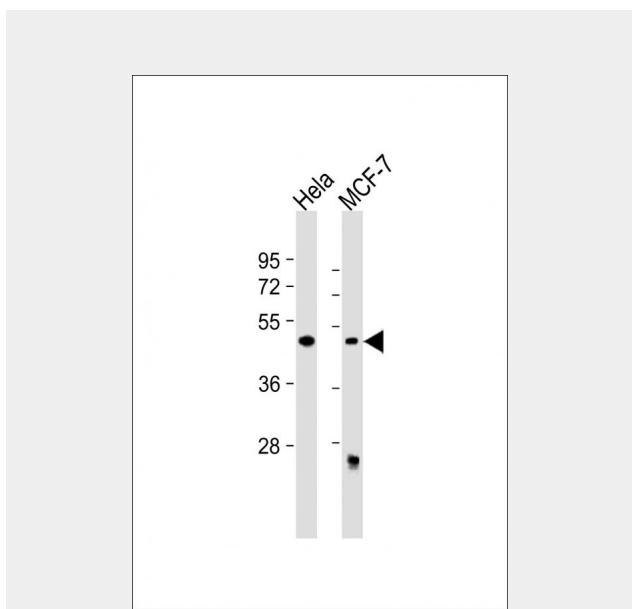
Dilution

WB~1:2000
 IHC-P~1:100
 FC~1:25

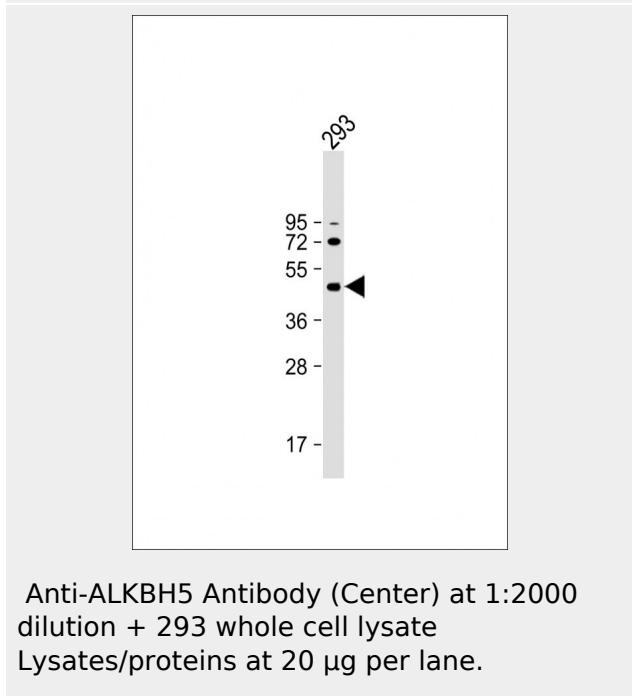
Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage



All lanes : Anti-ALKBH5 Antibody (Center) at 1:500 dilution
 Lane 1: Hela whole cell lysate
 Lane 2: MCF-7 whole cell lysate
 Lysates/proteins at 20 µg per lane.
 Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
 Predicted band size : 44 kDa
 Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-ALKBH5 Antibody (Center) at 1:2000 dilution + 293 whole cell lysate
 Lysates/proteins at 20 µg per lane.

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ALKBH5 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ALKBH5 Antibody (Center) - Protein Information

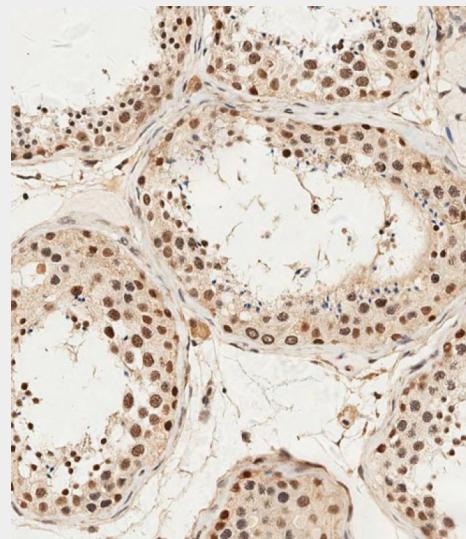
Name ALKBH5

Synonyms ABH5, OFOXD1

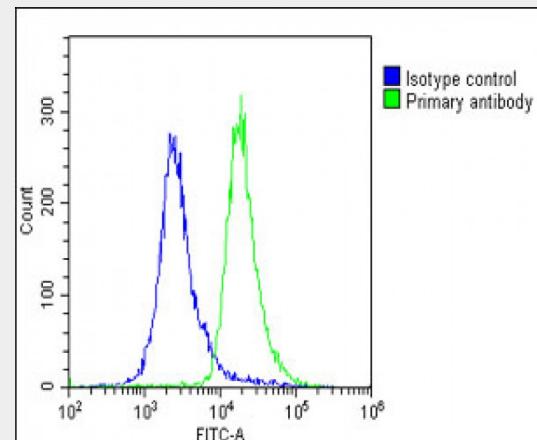
Function

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: <a href="h

Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AP18410c staining ALKBH5 in human testis tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Samples were incubated with primary antibody (1/100) for 1 hours at room temperature. A undiluted biotinylated goat polyclonal antibody was used as the secondary antibody.



Overlay histogram showing U-2 OS cells stained with AP18410c (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP18410c, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly

<http://www.uniprot.org/citations/23177736> target="_blank">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).

Cellular Location

Nucleus speckle

Tissue Location

Widely expressed, with highest expression in lung, followed by testis, pancreas, spleen and ovary

Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.

ALKBH5 Antibody (Center) - Background

Probable dioxygenase that requires molecular oxygen, alpha-ketoglutarate and iron (By similarity).

ALKBH5 Antibody (Center) - References

Olsen, J.V., et al. Cell 127(3):635-648(2006)
Bi, W., et al. Genome Res. 12(5):713-728(2002)

ALKBH5 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)