

ALKBH5 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP18410c**Specification**

ALKBH5 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q6P6C2](#)**ALKBH5 Antibody (Center) Blocking Peptide - 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, OFOX1**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ALKBH5 Antibody (Center) Blocking Peptide - Protein Information**Name** ALKBH5**Synonyms** ABH5, OFOX1**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](http://www.uniprot.org/citations/23177736), PubMed: [24489119](http://www.uniprot.org/citations/24489119), PubMed: [24616105](http://www.uniprot.org/citations/24616105), PubMed: [24778178](http://www.uniprot.org/citations/24778178)). Can also demethylate N(6)-methyladenosine in single-stranded DNA (in vitro) (PubMed: [24616105](http://www.uniprot.org/citations/24616105)). Requires molecular oxygen, alpha-ketoglutarate and iron (PubMed: [21264265](http://www.uniprot.org/citations/21264265), PubMed: [23177736](http://www.uniprot.org/citations/23177736), PubMed: [24489119](http://www.uniprot.org/citations/24489119), PubMed: [24616105](http://www.uniprot.org/citations/24616105), PubMed: [24778178](http://www.uniprot.org/citations/24778178)). Demethylation of m6A mRNA affects mRNA processing and export (PubMed: [24778178](#)).

href="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

ALKBH5 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ALKBH5 Antibody (Center) Blocking Peptide - Images**ALKBH5 Antibody (Center) Blocking Peptide - Background**

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

ALKBH5 Antibody (Center) Blocking Peptide - References

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