

**ALKBH4 Antibody (Center) Blocking peptide**  
Synthetic peptide  
Catalog # BP12774c**Specification**

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**ALKBH4 Antibody (Center) Blocking peptide - Product Information**Primary Accession [Q9NXW9](#)**ALKBH4 Antibody (Center) Blocking peptide - Additional Information**

Gene ID 54784

**Other Names**

Alpha-ketoglutarate-dependent dioxygenase alkB homolog 4, 11411-, Alkylated DNA repair protein alkB homolog 4, ALKBH4, ABH4

**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.

**ALKBH4 Antibody (Center) Blocking peptide - Protein Information**

Name ALKBH4 {ECO:0000303|PubMed:21166655, ECO:0000312|HGNC:HGNC:21900}

**Function**

Dioxygenase that mediates demethylation of actin monomethylated at 'Lys-84' (K84me1), thereby acting as a regulator of actomyosin-processes (PubMed:&lt;a href="http://www.uniprot.org/citations/23673617" target="\_blank"&gt;23673617&lt;/a&gt;). Demethylation of actin K84me1 is required for maintaining actomyosin dynamics supporting normal cleavage furrow ingression during cytokinesis and cell migration (PubMed:&lt;a href="http://www.uniprot.org/citations/23673617" target="\_blank"&gt;23673617&lt;/a&gt;). In addition to proteins, also demethylates DNA: specifically demethylates DNA methylated on the 6th position of adenine (N(6)-methyladenosine) DNA, thereby regulating Polycomb silencing (By similarity).

**Cellular Location**Cytoplasm. Nucleus. Nucleus, nucleolus {ECO:0000250|UniProtKB:Q9D8F1}. Midbody.  
Note=Associates with the contractile ring and midbody.**Tissue Location**

Widely expressed, with highest expression in pancreas, ovary and spleen.

**ALKBH4 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**ALKBH4 Antibody (Center) Blocking peptide - Images****ALKBH4 Antibody (Center) Blocking peptide - Background**

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

**ALKBH4 Antibody (Center) Blocking peptide - References**

Tsujikawa, K., et al. J. Cell. Mol. Med. 11(5):1105-1116(2007)  
Lamesch, P., et al. Genomics 89(3):307-315(2007)