

**KDM2B Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP2124d****Specification**

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**KDM2B Antibody (N-term) Blocking peptide - Product Information**Primary Accession [Q8NHM5](#)**KDM2B Antibody (N-term) Blocking peptide - Additional Information**

Gene ID 84678

**Other Names**

Lysine-specific demethylase 2B, CXXC-type zinc finger protein 2, F-box and leucine-rich repeat protein 10, F-box protein FBL10, F-box/LRR-repeat protein 10, JmjC domain-containing histone demethylation protein 1B, Jumonji domain-containing EMSY-interactor methyltransferase motif protein, Protein JEMMA, Protein-containing CXXC domain 2, [Histone-H3]-lysine-36 demethylase 1B, KDM2B, CXXC2, FBL10, FBXL10, JHDM1B, PCCX2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2124d](/product/products/AP2124d) was selected from the N-term region of human FBXL10a (N-term). A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**KDM2B Antibody (N-term) Blocking peptide - Protein Information****Name** KDM2B**Function**

Histone demethylase that demethylates 'Lys-4' and 'Lys-36' of histone H3, thereby playing a central role in histone code (PubMed: [16362057](http://www.uniprot.org/citations/16362057), PubMed: [17994099](http://www.uniprot.org/citations/17994099), PubMed: [26237645](http://www.uniprot.org/citations/26237645)). Preferentially demethylates trimethylated H3 'Lys-4' and dimethylated H3 'Lys-36' residue while it has weak or no activity for mono- and tri-methylated H3 'Lys-36' (PubMed: [16362057](http://www.uniprot.org/citations/16362057), PubMed: [17994099](http://www.uniprot.org/citations/17994099)

target="\_blank">17994099</a>, PubMed:<a href="http://www.uniprot.org/citations/26237645" target="\_blank">26237645</a>). Preferentially binds the transcribed region of ribosomal RNA and represses the transcription of ribosomal RNA genes which inhibits cell growth and proliferation (PubMed:<a href="http://www.uniprot.org/citations/16362057" target="\_blank">16362057</a>, PubMed:<a href="http://www.uniprot.org/citations/17994099" target="\_blank">17994099</a>). May also serve as a substrate-recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex (Probable).

#### **Cellular Location**

Nucleus, nucleolus. Nucleus. Chromosome

#### **KDM2B Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

#### **KDM2B Antibody (N-term) Blocking peptide - Images**

#### **KDM2B Antibody (N-term) Blocking peptide - Background**

FBXL10 is a histone demethylase that specifically demethylates 'Lys-36' of histone H3, thereby playing a central role in histone code. It preferentially demethylates dimethylated H3 'Lys-36' residue while it has weak or no activity for mono- and tri-methylated H3 'Lys-36'. FBXL10 is a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. FBXL10 belongs to the Fbls class.

#### **KDM2B Antibody (N-term) Blocking peptide - References**

Jin, J., et al., Genes Dev. 18(21):2573-2580 (2004).