

**KDM6A Blocking Peptide (Center)**  
**Synthetic peptide**  
**Catalog # BP21261c****Specification**

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**KDM6A Blocking Peptide (Center) - Product Information**Primary Accession [O15550](#)**KDM6A Blocking Peptide (Center) - Additional Information****Gene ID** 7403**Other Names**

Lysine-specific demethylase 6A, 11411-, Histone demethylase UTX, Ubiquitously-transcribed TPR protein on the X chromosome, Ubiquitously-transcribed X chromosome tetratricopeptide repeat protein, KDM6A, UTX

**Target/Specificity**

The synthetic peptide sequence is selected from aa 797-812 of HUMAN KDM6A

**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.

**KDM6A Blocking Peptide (Center) - Protein Information****Name** KDM6A**Synonyms** UTX**Function**

Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code (PubMed:<a href="http://www.uniprot.org/citations/17851529" target="\_blank">17851529</a>, PubMed:<a href="http://www.uniprot.org/citations/17713478" target="\_blank">17713478</a>, PubMed:<a href="http://www.uniprot.org/citations/17761849" target="\_blank">17761849</a>). Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-27' (PubMed:<a href="http://www.uniprot.org/citations/17851529" target="\_blank">17851529</a>, PubMed:<a href="http://www.uniprot.org/citations/17713478" target="\_blank">17713478</a>, PubMed:<a href="http://www.uniprot.org/citations/17761849" target="\_blank">17761849</a>). Plays a central role in regulation of posterior development, by regulating HOX gene expression (PubMed:<a href="http://www.uniprot.org/citations/17851529" target="\_blank">17851529</a>). Demethylation of 'Lys-27' of histone H3 is concomitant with

methylation of 'Lys-4' of histone H3, and regulates the recruitment of the PRC1 complex and monoubiquitination of histone H2A (PubMed:<a href="http://www.uniprot.org/citations/17761849" target="\_blank">17761849</a>). Plays a demethylase-independent role in chromatin remodeling to regulate T-box family member-dependent gene expression (By similarity).

**Cellular Location**

Nucleus.

**KDM6A Blocking Peptide (Center) - Protocols**

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

- [Blocking Peptides](#)

**KDM6A Blocking Peptide (Center) - Images****KDM6A Blocking Peptide (Center) - Background**

Histone demethylase that specifically demethylates 'Lys- 27' of histone H3, thereby playing a central role in histone code. Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-27'. Plays a central role in regulation of posterior development, by regulating HOX gene expression. Demethylation of 'Lys-27' of histone H3 is concomitant with methylation of 'Lys-4' of histone H3, and regulates the recruitment of the PRC1 complex and monoubiquitination of histone H2A.

**KDM6A Blocking Peptide (Center) - References**

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Ross M.T.,et al.Nature 434:325-337(2005).  
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