

**KDM6B Blocking Peptide (Center)**  
**Synthetic peptide**  
**Catalog # BP21160a****Specification**

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**KDM6B Blocking Peptide (Center) - Product Information**Primary Accession [O15054](#)**KDM6B Blocking Peptide (Center) - Additional Information**

Gene ID 23135

**Other Names**

Lysine-specific demethylase 6B, 11411-, JmjC domain-containing protein 3, Jumonji domain-containing protein 3, Lysine demethylase 6B, KDM6B, JMJD3, KIAA0346

**Target/Specificity**

The synthetic peptide sequence is selected from aa 879-892 of HUMAN KDM6B

**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.

**KDM6B Blocking Peptide (Center) - Protein Information**

Name KDM6B

Synonyms JMJD3, KIAA0346

**Function**

Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code (PubMed: [17825402](http://www.uniprot.org/citations/17825402), PubMed: [17851529](http://www.uniprot.org/citations/17851529), PubMed: [17713478](http://www.uniprot.org/citations/17713478), PubMed: [18003914](http://www.uniprot.org/citations/18003914)). Demethylates trimethylated and dimethylated H3 'Lys-27' (PubMed: [17825402](http://www.uniprot.org/citations/17825402), PubMed: [17851529](http://www.uniprot.org/citations/17851529), PubMed: [17713478](http://www.uniprot.org/citations/17713478), PubMed: [18003914](http://www.uniprot.org/citations/18003914)). Plays a central role in regulation of posterior development, by regulating HOX gene expression (PubMed: [17851529](http://www.uniprot.org/citations/17851529)).

Involved in inflammatory response by participating in macrophage differentiation in case of inflammation by regulating gene expression and macrophage differentiation (PubMed:<a href="http://www.uniprot.org/citations/17825402" target="\_blank">17825402</a>). Plays a demethylase-independent role in chromatin remodeling to regulate T-box family member-dependent gene expression by acting as a link between T-box factors and the SMARCA4-containing SWI/SNF remodeling complex (By similarity).

**Cellular Location**

Nucleus.

**KDM6B Blocking Peptide (Center) - Protocols**

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

- [Blocking Peptides](#)

**KDM6B Blocking Peptide (Center) - Images****KDM6B 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 H3 'Lys-27'. Plays a central role in regulation of posterior development, by regulating HOX gene expression. Involved in inflammatory response by participating in macrophage differentiation in case of inflammation by regulating gene expression and macrophage differentiation.

**KDM6B Blocking Peptide (Center) - References**

Nagase T.,et al.DNA Res. 4:141-150(1997).  
Nakajima D.,et al.DNA Res. 9:99-106(2002).  
Zody M.C.,et al.Nature 440:1045-1049(2006).  
Hu L.Y.,et al.Gene Expr. 13:179-189(2006).  
De Santa F.,et al.Cell 130:1083-1094(2007).