

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

KDM6B Blocking Peptide (Center) - Product InformationPrimary 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:17825402). 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).