10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KDM6B Blocking Peptide (Center)

Synthetic peptide
Catalog # BP21160a

Specification

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, PubMed:17851529, PubMed:17713478, PubMed:18003914). Demethylates trimethylated and dimethylated H3 'Lys-27' (PubMed:17825402, PubMed:17851529, PubMed:17713478, PubMed:18003914). Plays a central role in regulation of posterior development, by regulating HOX gene expression (PubMed: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).