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Mouse Kdm6a Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP21225b

Specification

Mouse Kdm6a Blocking Peptide (C-term) - Product Information

Primary Accession O70546

Mouse Kdm6a Blocking Peptide (C-term) - Additional Information

Gene ID 22289

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 1041-1054 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.

Mouse Kdm6a Blocking Peptide (C-term) - 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. 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 (By similarity). Plays a demethylase-independent role in chromatin remodeling to regulate T-box family member-dependent gene expression (PubMed:21095589).

Cellular Location
Nucleus.

Tissue Location
Expressed in brain, heart and spleen.

Mouse Kdm6a Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides

Mouse Kdm6a Blocking Peptide (C-term) - Images

Mouse Kdm6a Blocking Peptide (C-term) - Background

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Mouse Kdm6a Blocking Peptide (C-term) - References

Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).
Greenfield A.,et al.Hum. Mol. Genet. 7:737-742(1998).
Grbavec D.,et al.Biochem. J. 337:13-17(1999).
Ballif B.A.,et al.Mol. Cell. Proteomics 3:1093-1101(2004).
Wang A.H.,et al.EMBO J. 32:1075-1086(2013).