

KDM1B Blocking Peptide (N-term)
Synthetic peptide
Catalog # BP21020a**Specification**

KDM1B Blocking Peptide (N-term) - Product InformationPrimary Accession [Q8NB78](#)**KDM1B Blocking Peptide (N-term) - Additional Information****Gene ID** 221656**Other Names**

Lysine-specific histone demethylase 1B, 1---, Flavin-containing amine oxidase domain-containing protein 1, Lysine-specific histone demethylase 2, KDM1B, AOF1, C6orf193, LSD2

Target/Specificity

The synthetic peptide sequence is selected from aa 38-53 of HUMAN KDM1B

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.

KDM1B Blocking Peptide (N-term) - Protein Information**Name** KDM1B ([HGNC:21577](#))**Function**

Histone demethylase that demethylates 'Lys-4' of histone H3, a specific tag for epigenetic transcriptional activation, thereby acting as a corepressor. Required for de novo DNA methylation of a subset of imprinted genes during oogenesis. Acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. Demethylates both mono- and di-methylated 'Lys-4' of histone H3. Has no effect on tri-methylated 'Lys-4', mono-, di- or tri-methylated 'Lys-9', mono-, di- or tri-methylated 'Lys-27', mono-, di- or tri-methylated 'Lys-36' of histone H3, or on mono-, di- or tri-methylated 'Lys-20' of histone H4. Alone, it is unable to demethylate H3K4me on nucleosomes and requires the presence of GLYR1 to achieve such activity, they form a multifunctional enzyme complex that modifies transcribed chromatin and facilitates Pol II transcription through nucleosomes (PubMed:30970244).

Cellular Location

Nucleus. Chromosome. Note=Found in actively RNAPolIII- transcribed gene bodies.

KDM1B Blocking Peptide (N-term) - Protocols

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

- [Blocking Peptides](#)

KDM1B Blocking Peptide (N-term) - Images

KDM1B Blocking Peptide (N-term) - Background

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KDM1B Blocking Peptide (N-term) - References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mungall A.J.,et al.Nature 425:805-811(2003).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Cantin G.T.,et al.J. Proteome Res. 7:1346-1351(2008).