

**KDM1B Antibody (N-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS16777****Specification**

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**KDM1B Antibody (N-Terminus) - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">Q8NB78</a>
Other Accession	<a href="#">221656</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	92098

**KDM1B Antibody (N-Terminus) - Additional Information****Gene ID** 221656**Other Names**

KDM1B, AOF1, BA204B7.3, C6orf193, DJ298J15.2, LSD2

**Target/Specificity**

KDM1B antibody is human, mouse and rat reactive. At least two isoforms of KDM1B are known to exist; this KDM1B antibody will detect both isoforms.

**Reconstitution & Storage**

PBS, 0.02% sodium azide. Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

**Precautions**

KDM1B Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**KDM1B Antibody (N-Terminus) - 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:<a

href="http://www.uniprot.org/citations/30970244" target="\_blank">30970244</a>).

#### Cellular Location

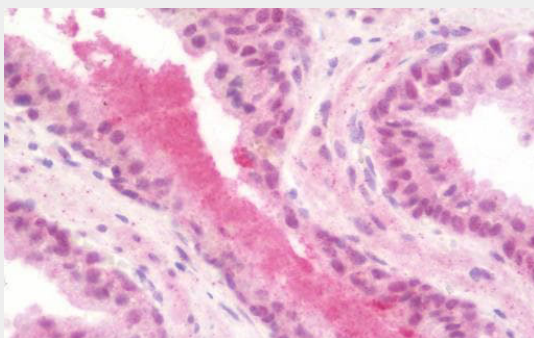
Nucleus. Chromosome. Note=Found in actively RNAPolIII- transcribed gene bodies.

#### KDM1B Antibody (N-Terminus) - Protocols

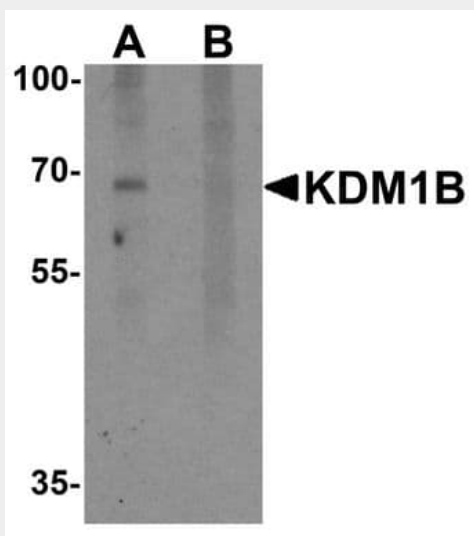
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### KDM1B Antibody (N-Terminus) - Images



Anti-KDM1B antibody IHC staining of human prostate.



Western blot analysis of KDM1B in 3T3 cell lysate with KDM1B antibody at 2 ug/ml in (A) the...

#### KDM1B Antibody (N-Terminus) - Background

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 (By similarity).

#### **KDM1B Antibody (N-Terminus) - 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).