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

Specification

KDM1B Antibody (N-Terminus) - Product Information

Application	**IHC, WB**
Primary Accession	Q8NB78
Other Accession	221656
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).

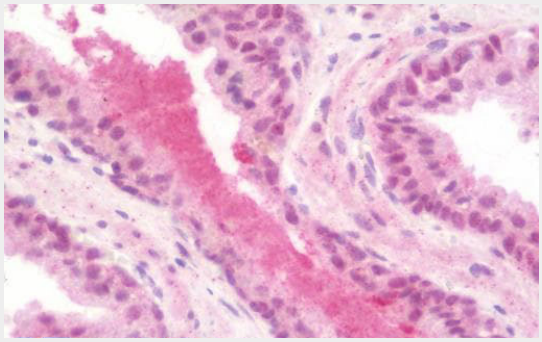
Cellular Location
Nucleus. Chromosome. Note=Found in actively RNAPolII- transcribed gene bodies.

KDM1B Antibody (N-Terminus) - Protocols

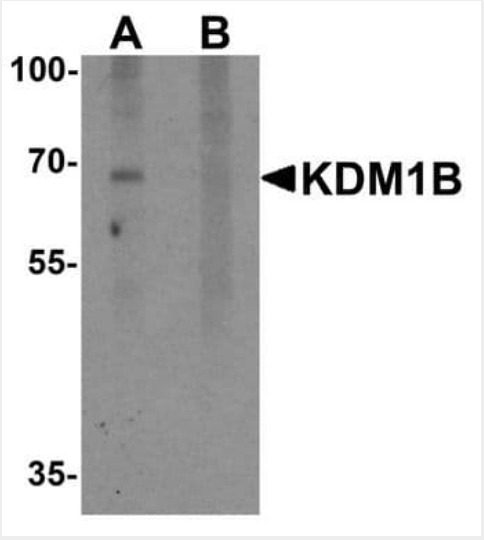
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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).