

KDM1B polyclonal antibody
Rabbit Polyclonal Antibody
Catalog # ABV11381**Specification**

KDM1B polyclonal antibody - Product Information

Application	E
Primary Accession	Q8NB78
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	92098

KDM1B polyclonal antibody - Additional Information**Gene ID** 221656

Positive Control	ELISA: Peptides.
Application & Usage	ELISA: 1:500.
Other Names	
AOF1, LSD2, C6orf193	

Target/Specificity
KDM1B**Antibody Form**
Liquid**Appearance**
Colorless liquid**Formulation**
In PBS with 0.05% (W/V) sodium azide.**Handling**
The antibody solution should be gently mixed before use.**Reconstitution & Storage**
-20 °C**Background Descriptions****Precautions**
KDM1B polyclonal antibody is for research use only and not for use in diagnostic or therapeutic procedures.**KDM1B polyclonal antibody - 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](http://www.uniprot.org/citations/30970244)).

Cellular Location

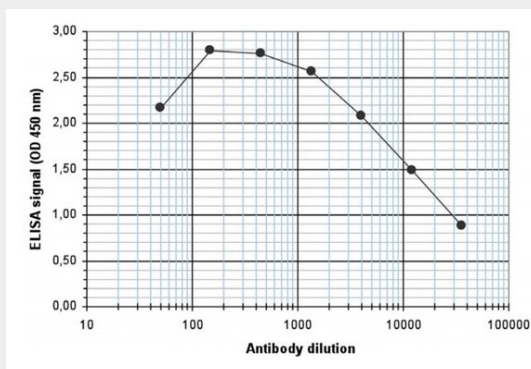
Nucleus. Chromosome. Note=Found in actively RNAPolIII- transcribed gene bodies.

KDM1B polyclonal antibody - 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 polyclonal antibody - Images



To determine the titer, an ELISA was performed using a serial dilution of the antibody. By plotting the absorbance against the antibody dilution (Figure 1), the titer of the antibody was estimated to be 1:12,300.

KDM1B polyclonal antibody - Background

KDM1B is a histone demethylase that demethylates lysine 4 of histone H3, a specific tag for epigenetic transcriptional activation, thereby acting as a corepressor. KDM1B is able to demethylate both mono- and di-methylated lysine 4 of histone H3, but has no effect on tri-methylated lysine 4, mono-, di- or tri-methylated lysine 9, mono-, di- or tri-methylated lysine 27,

mono-, di- or tri-methylated lysine 36 of histone H3, or on mono-, di- or tri-methylated lysine 20 of histone H4. KDM1B is also required for de novo DNA methylation of a subset of imprinted genes during oogenesis. It acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed.