

**Anti-KDM1A / LSD1 Antibody (aa97-328)**  
**Rabbit Anti Human Polyclonal Antibody**  
**Catalog # ALS17394****Specification**

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**Anti-KDM1A / LSD1 Antibody (aa97-328) - Product Information**

Application	<b>WB, IHC-P</b>
Primary Accession	<a href="#">O60341</a>
Predicted	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>92903</b>

**Anti-KDM1A / LSD1 Antibody (aa97-328) - Additional Information****Gene ID** 23028**Alias Symbol** **KDM1A**  
**Other Names**  
KDM1A, BHC110, KDM1, LSD1, AOF2, KIAA0601**Target/Specificity**  
Human KDM1A / LSD1**Reconstitution & Storage**

PBS, 0.05% sodium azide. Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

**Precautions**

Anti-KDM1A / LSD1 Antibody (aa97-328) is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-KDM1A / LSD1 Antibody (aa97-328) - Protein Information****Name** KDM1A ([HGNC:29079](#))**Function**

Histone demethylase that can demethylate both 'Lys-4' (H3K4me) and 'Lys-9' (H3K9me) of histone H3, thereby acting as a coactivator or a corepressor, depending on the context (PubMed: [15620353](http://www.uniprot.org/citations/15620353), PubMed: [15811342](http://www.uniprot.org/citations/15811342), PubMed: [16079794](http://www.uniprot.org/citations/16079794), PubMed: [16079795](http://www.uniprot.org/citations/16079795), PubMed: [16140033](http://www.uniprot.org/citations/16140033), PubMed: [16223729](http://www.uniprot.org/citations/16223729), PubMed: [27292636](http://www.uniprot.org/citations/27292636)). Acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed (PubMed: [15620353](http://www.uniprot.org/citations/15620353))

target="\_blank">15620353</a>, PubMed:<a href="http://www.uniprot.org/citations/15811342" target="\_blank">15811342</a>, PubMed:<a href="http://www.uniprot.org/citations/16079794" target="\_blank">16079794</a>, PubMed:<a href="http://www.uniprot.org/citations/21300290" target="\_blank">21300290</a>). Acts as a corepressor by mediating demethylation of H3K4me, a specific tag for epigenetic transcriptional activation. Demethylates both mono- (H3K4me1) and di-methylated (H3K4me2) H3K4me (PubMed:<a href="http://www.uniprot.org/citations/15620353" target="\_blank">15620353</a>, PubMed:<a href="http://www.uniprot.org/citations/20389281" target="\_blank">20389281</a>, PubMed:<a href="http://www.uniprot.org/citations/21300290" target="\_blank">21300290</a>, PubMed:<a href="http://www.uniprot.org/citations/23721412" target="\_blank">23721412</a>). May play a role in the repression of neuronal genes. Alone, it is unable to demethylate H3K4me on nucleosomes and requires the presence of RCOR1/CoREST to achieve such activity (PubMed:<a href="http://www.uniprot.org/citations/16079794" target="\_blank">16079794</a>, PubMed:<a href="http://www.uniprot.org/citations/16140033" target="\_blank">16140033</a>, PubMed:<a href="http://www.uniprot.org/citations/16885027" target="\_blank">16885027</a>, PubMed:<a href="http://www.uniprot.org/citations/21300290" target="\_blank">21300290</a>, PubMed:<a href="http://www.uniprot.org/citations/23721412" target="\_blank">23721412</a>). Also acts as a coactivator of androgen receptor (AR)-dependent transcription, by being recruited to AR target genes and mediating demethylation of H3K9me, a specific tag for epigenetic transcriptional repression. The presence of PRKCB in AR-containing complexes, which mediates phosphorylation of 'Thr-6' of histone H3 (H3T6ph), a specific tag that prevents demethylation H3K4me, prevents H3K4me demethylase activity of KDM1A (PubMed:<a href="http://www.uniprot.org/citations/16079795" target="\_blank">16079795</a>). Demethylates di-methylated 'Lys- 370' of p53/TP53 which prevents interaction of p53/TP53 with TP53BP1 and represses p53/TP53-mediated transcriptional activation. Demethylates and stabilizes the DNA methylase DNMT1 (PubMed:<a href="http://www.uniprot.org/citations/29691401" target="\_blank">29691401</a>). Demethylates methylated 'Lys-42' and methylated 'Lys-117' of SOX2 (PubMed:<a href="http://www.uniprot.org/citations/29358331" target="\_blank">29358331</a>). Required for gastrulation during embryogenesis. Component of a RCOR/GFI/KDM1A/HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development (PubMed:<a href="http://www.uniprot.org/citations/16079794" target="\_blank">16079794</a>, PubMed:<a href="http://www.uniprot.org/citations/16140033" target="\_blank">16140033</a>). Facilitates epithelial-to-mesenchymal transition by acting as an effector of SNAI1-mediated transcription repression of epithelial markers E-cadherin/CDH1, CDN7 and KRT8 (PubMed:<a href="http://www.uniprot.org/citations/20562920" target="\_blank">20562920</a>, PubMed:<a href="http://www.uniprot.org/citations/27292636" target="\_blank">27292636</a>). Required for the maintenance of the silenced state of the SNAI1 target genes E-cadherin/CDH1 and CDN7 (PubMed:<a href="http://www.uniprot.org/citations/20389281" target="\_blank">20389281</a>).

#### Cellular Location

Nucleus. Chromosome. Note=Associates with chromatin

#### Tissue Location

Ubiquitously expressed.

### Anti-KDM1A / LSD1 Antibody (aa97-328) - 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](#)

**Anti-KDM1A / LSD1 Antibody (aa97-328) - Images**