

KDM1A (ANT0015R) Rabbit mAb

CatalogNo: ANT8137 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA
Quantity : 100 ug/vial

Host Species

- Rabbit
- Human,Mouse,Rat,

Reactivity

- WB,IHC,IF,IP,ELISA

Applications

MW

- 93kD (Calculated)
- 110kD (Observed)

Isotype

- IgG,Kappa

Recommended Dilution Ratios

IHC 1:200-1:1000

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200,

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Basic Information

Clonality Monoclonal

Clone Number ANT0015R

Target Information

Immunogen Information Specificity

Endogenous

Gene name KDM1A AOF2 KDM1 KIAA0601 LSD1

Protein Name LSD1 (Ser131)

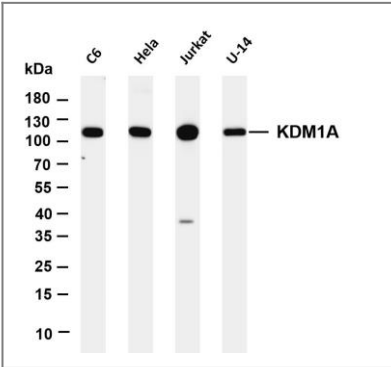
Organism	Gene ID	UniProt ID
Human	23028;	O60341;
Mouse	99982;	Q6ZQ88;

Cellular Localization Nucleus

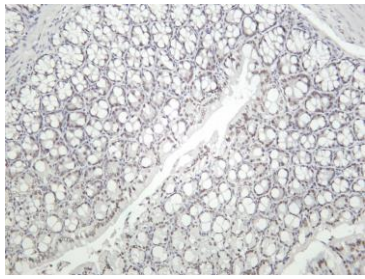
Tissue specificity Ubiquitously expressed.

Function cofactor:FAD.,Domain:The SWIRM domain may act as an anchor site for a histone tail.,Function:Histone demethylase that demethylates 'Lys-4' of histone H3, a specific tag for epigenetic transcriptional activation, thereby acting as a corepressor. 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. May play a role in the repression of neuronal genes. Alone, it is unable to demethylate H3 'Lys-4' on nucleosomes and requires the presence of RCOR1/CoREST to achieve such activity. May also demethylate 'Lys-9' of histone H3, a specific tag for epigenetic transcriptional repression, thereby leading to derepression of androgen receptor target genes. Demethylates di-methylated 'Lys-370' of p53/TP53 which prevents interaction of p53/TP53 with TP53BP1 and represses p53/TP53mediated transcriptional activation. Demethylates and stabilizes the DNA methylase DNMT1. Required for gastrulation during embryogenesis.,similarity:Belongs to the flavin monoamine oxidase family.,similarity:Contains 1 SWIRM domain.,subunit:Component of a BHC histone deacetylase complex that contains HDAC1, HDAC2, HMG20B/BRAF35, KDM1, RCOR1/CoREST and PHF21A/BHC80. The BHC complex may also contain ZMYM2, ZNF217, ZMYM3, GSE1 and GTF2I. In the complex, RCOR1/CoREST strongly enhances the demethylase activity and protects it from the proteasome while PHF21A/BHC80 inhibits the demethylase activity. Interacts with the androgen receptor (AR).,tissue specificity:Ubiquitously expressed.,

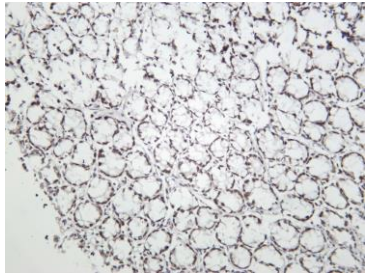
Validation Data



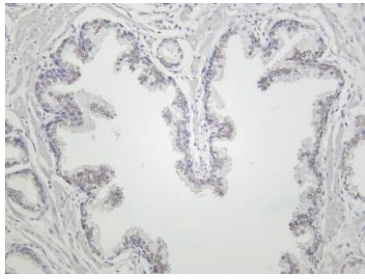
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-KDM1A (ANT0015R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: C6 Lane 2: HeLa Lane 3: Jurkat Lane 4: U-14 Predicted band size: 93kDa Observed band size: 110kDa



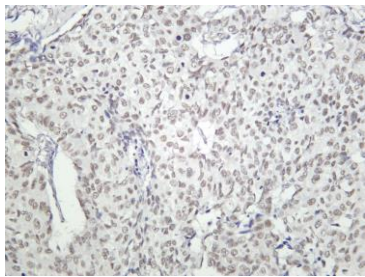
Mouse colon was stained with Anti-KDM1A (ANT0015R) rabbit antibody



Rat colon was stained with Anti-KDM1A (ANT0015R) rabbit antibody



Human prostate was stained with Anti-KDM1A (ANT0015R) rabbit antibody



Human prostate carcinoma was stained with Anti-KDM1A (ANT0015R) rabbit antibody

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