

KDM1A (PT0084R) PT™ Rabbit mAb

CatalogNo: YM8476 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, IP, ELISA

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)

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Basic Information

Clonality Monoclonal

Clone Number PT0084R

Immunogen Information

Specificity Endogenous

Target Information

Gene name KDM1A AOF2 KDM1 KIAA0601 LSD1

Protein Name LSD1 (Ser131)

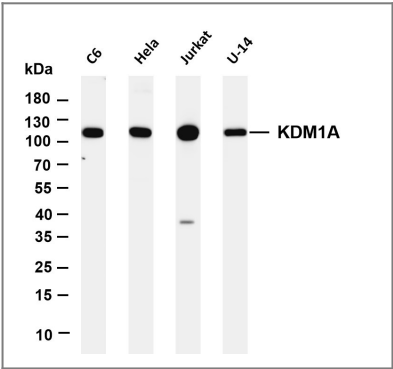
| Organism | Gene ID | UniProt ID |
|----------|------------------------|-------------------------|
| Human | 23028; | O60341; |
| Mouse | 99982; | Q6ZQ88; |

Cellular Localization Nucleus

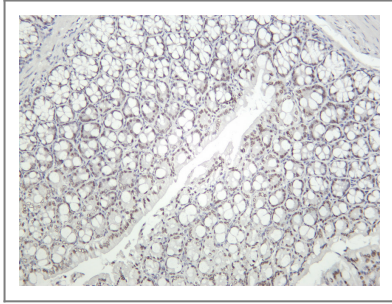
Tissue specificity Ubiquitously expressed.

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/TP53-mediated 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.,

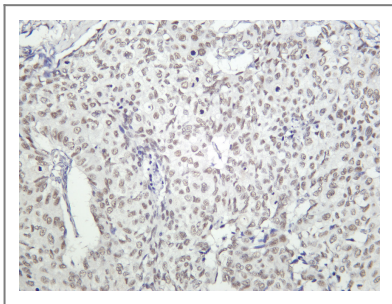
Validation Data



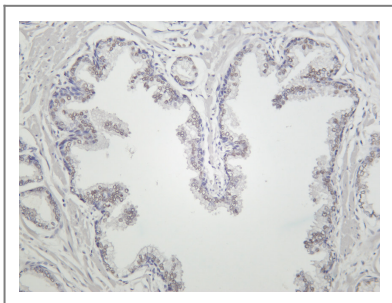
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-KDM1A antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: C6 Lane 2: HeLa Lane 3: Jurkat Lane 4: U-14 Predicted band size: 93kDa Observed band size: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



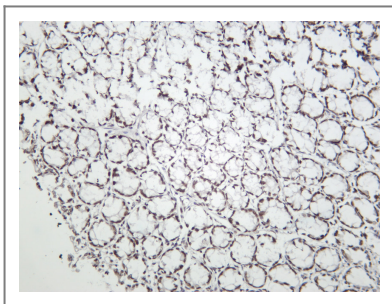
Mouse colon was stained with Anti-KDM1A rabbit antibody



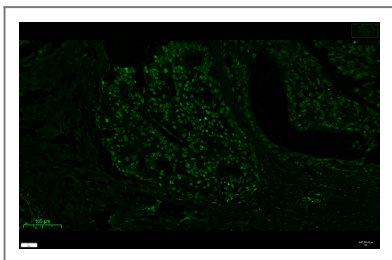
Human prostate carcinoma was stained with Anti-KDM1A rabbit antibody



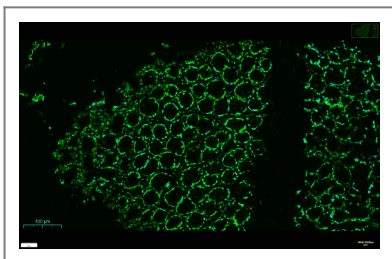
Human prostate was stained with Anti-KDM1A rabbit antibody



Rat colon was stained with Anti-KDM1A rabbit antibody



prostate was stained with Anti-KDM1A rabbit antibody



rat colon was stained with Anti-KDM1A rabbit antibody

| Contact information

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KDM1A (PT0084R)
PT™ Rabbit mAb

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