

Anti-KDM1/LSD1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse, Rat (predicted: Chicken, Dog, Pig, Cow, Rabbit)
Molecular Weight:	Theoretical: 94 kDa. Actual: 120 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: rat brain tissue; Frozen section;
Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;
Incubation: Anti-KDM1 Polyclonal Antibody, Unconjugated (TMAB-07972) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining
2. Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (KDM1/LSD1) Polyclonal Antibody, Unconjugated (TMAB-07972) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

3. Sample:

- Lane 1: NIH/3T3 (Mouse) Cell Lysate at 30 µg
- Lane 2: HeLa (Human) Cell Lysate at 30 µg
- Lane 3: 293T (Human) Cell Lysate at 30 µg
- Lane 4: Jurkat (Human) Cell Lysate at 30 µg

Verified Activity:

Primary: Anti-KDM1/LSD1 (TMAB-07972) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 120 kD
Observed band size: 120 kD

4. Blank control (black line): HeLa.

Primary Antibody (green line): Rabbit Anti-KDM1/LSD1 antibody (TMAB-07972)
Dilution: 1 µg/Test;
Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF488
Dilution: 0.5 µg/Test.

Isotype control (orange line): Normal Rabbit IgG
Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

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Application: WB,IHC-P,IHC-Fr,IF,FCM

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human KDM1

Antigen Species: Human

Gene ID: 23028

Uniprot ID: O60341

Research Background

Gene activation and repression is specifically regulated by histone methylation status at distinct lysine residues. Lysine specific demethylase 1 (KDM1/LSD1) is a long-sought histone demethylase that specifically demethylates mono and di methyl histone H3 at K4 and K9. Thus KDM1 is a specific tag for epigenetic transcriptional activation, thereby acting as a corepressor.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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