

KDM4A Polyclonal antibody

Catalog Number: 29977-1-AP

Basic Information

Catalog Number:

29977-1-AP

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG31992

GenBank Accession Number:

BC002558

GeneID (NCBI):

9682

UNIPROT ID:

O75164

Full Name:

lysine (K)-specific demethylase 4A

Calculated MW:

1064 aa, 121 kDa

Observed MW:

130-150 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

WB, FC (Intra), IP, ELISA

Species Specificity:

human, mouse

Positive Controls:**WB :** A549 cells, mouse lung tissue, MCF-7 cells, MDA-MB-231 cells, NCL-H1299 cells**IP :** MCF-7 cells, A549 cells

Background Information

KDM4A also named as JHDM3A, JMJD2, or KIAA0677 is a 1066 amino acid protein, which contains one JmjC domain, two Tudor domains and two PHD-type zinc fingers. KDM4A localizes in nucleus and belongs to the JHDM3 histone demethylase family. KDM4A is histone de-methylase that specifically demethylates Lys 9 and Lys 36 residues of Histone H3, thereby playing a central role in histone code. JMJD2A demethylation of lysine residues will generate formaldehyde and succinate. KDM4A also participates in transcriptional repression of ASCL2 and E2F-responsive promoters via the recruitment of histone deacetylases and NCOR1, respectively. JMJD2A is a ubiquitously expressed nuclear protein. KDM4A exists as two isoforms. The short isoform of KDM4A in which the N-terminal demethylase domains has been deleted. The molecular weight of short isoform is 55Da.

Storage

Storage:

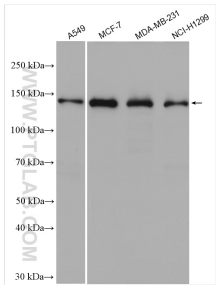
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

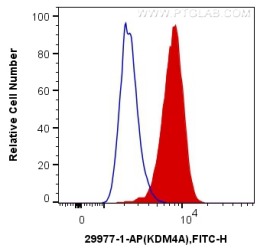
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

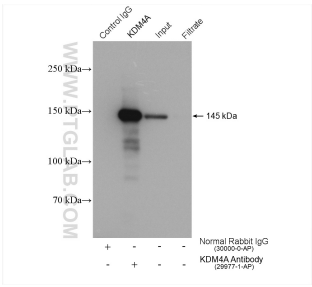
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29977-1-AP (KDM4A antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



1X10⁶ A549 cells were intracellularly stained with 0.4 ug Anti-Human KDM4A (29977-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



IP result of anti-KDM4A (IP:29977-1-AP, 4ug; Detection:29977-1-AP 1:1500) with MCF-7 cells lysate 2120 ug.