

For Research Use Only

# CoraLite® Plus 488-conjugated KDM4A Polyclonal antibody

Catalog Number: CL488-29977



## Basic Information

### Catalog Number:

CL488-29977

### Size:

100ul , Concentration: 1000 ug/ml by Nanodrop;

### 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

### Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

### Tested Applications:

FC (Intra)

### Species Specificity:

Human, mouse

## 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. Avoid exposure to light. Stable for one year after shipment.

### Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

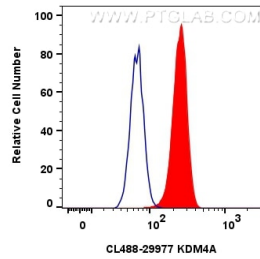
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1x10<sup>6</sup> A549 cells were intracellularly stained with 0.8 ug Coralite® Plus 488 Kdm4a Polyclonal Antibody (CL488-29977)(red), or 0.8 ug Coralite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).