**Product Datasheet**

# KDM5A Rabbit mAb

Catalog No: #49824

Package Size: #49824-1 50ul #49824-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

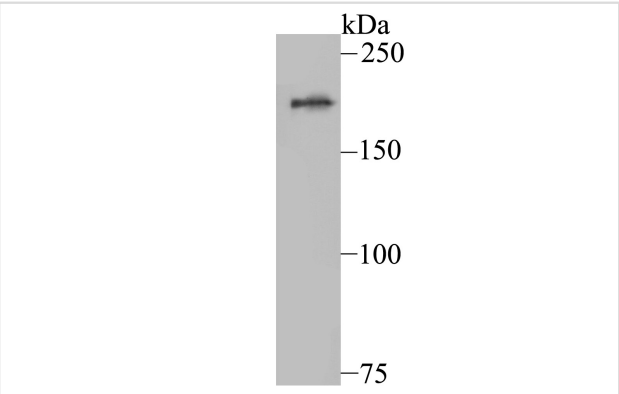
## Description

| | |
|---|---|
| Product Name | KDM5A Rabbit mAb |
| Host Species | Recombinant Rabbit |
| Clonality | Monoclonal antibody |
| Clone No. | JB36-60 |
| Purification | ProA affinity purified |
| Applications | WB,ICC,IF,FC |
| Species Reactivity | Hu |
| Immunogen Description | Recombinant protein |
| Other Names | Histone demethylase JARID1A antibody JARID1A antibody Jumonji/ARID domain containing protein 1A antibody Jumonji/ARID domain-containing protein 1A antibody Kdm5a antibody KDM5A_HUMAN antibody Lysine-specific demethylase 5A antibody RBBP-2 antibody RBBP2 antibody RBP2 antibody Retinoblastoma binding protein 2 antibody Retinoblastoma-binding protein 2 antibody |
| Accession No. | Swiss-Prot#:P29375 |
| Uniprot | P29375 |
| GeneID | 5927; |
| Calculated MW | 192 kDa |
| Formulation | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide. |
| Storage | Store at -20°C |

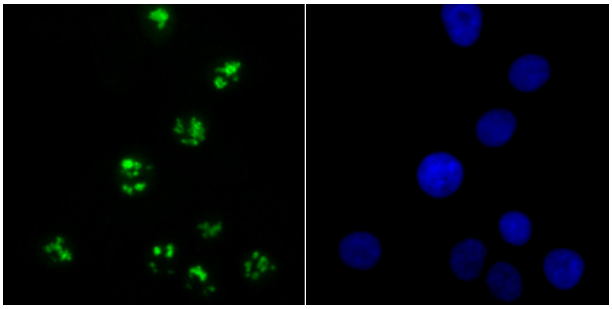
## Application Details

WB: 1:500 ICC: 1:50-1:400FC: 1:50-1:100

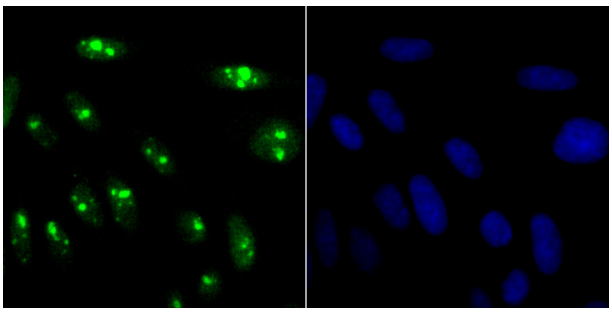
## Images



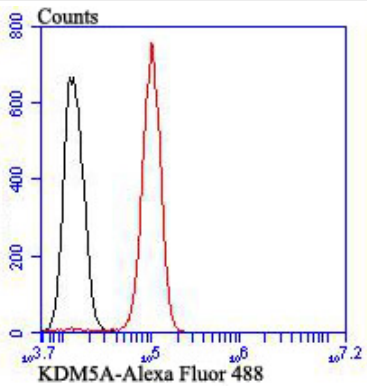

Western blot analysis of KDM5A on A549 cell using anti-KDM5A antibody at 1/500 dilution.



ICC staining KDM5A in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining KDM5A in SiHa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.




Flow cytometric analysis of SH-SY-5Y cells with KDM5A antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

## Background

Histone demethylase that specifically demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-9', H3 'Lys-27', H3 'Lys-36', H3 'Lys-79' or H4 'Lys-20'. Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-4'. Regulates specific gene transcription through DNA-binding on 5'-CCGCCC-3' motif. May stimulate transcription mediated by nuclear receptors. Involved in transcriptional regulation of Hox proteins during cell differentiation. May participate in transcriptional repression of cytokines such as CXCL12. Plays a role in the regulation of the circadian rhythm and in maintaining the normal periodicity of the circadian clock. In a histone demethylase-independent manner, acts as a coactivator of the CLOCK-ARNTL/BMAL1-mediated transcriptional activation of PER1/2 and other clock-controlled genes and increases histone acetylation at PER1/2 promoters by inhibiting the activity of HDAC1. Seems to act as a transcriptional corepressor for some genes such as MT1F and to favor the proliferation of cancer cells.

## References

Note: This product is for in vitro research use only