

KDM5A Rabbit mAb

Catalog # AP77877

Product Information

Application	WB, IF, FC, ICC, IP
Primary Accession	P29375
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Immunogen	A synthesized peptide derived from human KDM5A / Jarid1A / RBBP2
Purification	Affinity Chromatography
Calculated MW	192095

Additional Information

Gene ID	5927
Other Names	KDM5A
Dilution	WB~~1/500-1/1000 IF~~1:50~200 FC~~1:10~50 ICC~~N/A IP~~N/A
Format	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

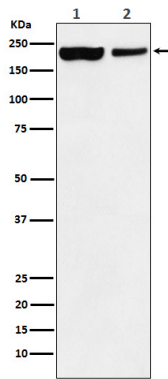
Name	KDM5A (HGNC:9886)
Function	Histone demethylase that specifically demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-9', H3 'Lys-27', H3 'Lys-36', H3 'Lys-79' or H4 'Lys-20'. Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-4'. Regulates specific gene transcription through DNA-binding on 5'-CCGCCC-3' motif (PubMed:18270511). May stimulate transcription mediated by nuclear receptors. Involved in transcriptional regulation of Hox proteins during cell differentiation (PubMed:19430464). 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-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 (By similarity). Seems to act as a

transcriptional corepressor for some genes such as MT1F and to favor the proliferation of cancer cells (PubMed:[27427228](#)).

Cellular Location

Nucleus, nucleolus. Nucleus {ECO:0000250 | UniProtKB:Q3UXZ9}
Note=Occupies promoters of genes involved in RNA metabolism and mitochondrial function. {ECO:0000250 | UniProtKB:Q3UXZ9}

Images



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