

ARG53984 anti-KDM1 / LSD1 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes KDM1A
Tested Reactivity	Hu, Mk
Tested Application	ICC/IF, IP, WB
Host	Mouse
Clonality	Monoclonal
Isotype	lgG1
Target Name	KDM1 / LSD1
Species	Human
Immunogen	Purified recombinant human KDM1/LSD1 protein fragments expressed in E.coli.
Conjugation	Un-conjugated
Alternate Names	Flavin-containing amine oxidase domain-containing protein 2; Lysine-specific histone demethylase 1A; EC 1; BRAF35-HDAC complex protein BHC110; AOF2; KDM1; LSD1; BHC110

Application Instructions

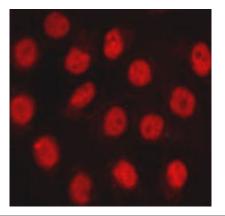
Application table	Application	Dilution	
	ICC/IF	1:100	
	IP	Assay-dependent	
	WB	1:1000	
Application Note		* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	110 kDa		

Properties

Form	Liquid
Purification	Affinity purified
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 50% Glycerol
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Concentration	3 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

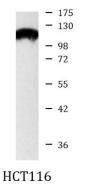
Bioinformation

GenelD: 23028 Human
Swiss-port # 060341 Human
KDM1A
lysine (K)-specific demethylase 1A
Histone demethylase that demethylates both 'Lys-4' (H3K4me) and 'Lys-9' (H3K9me) of histone H3,thereby acting as a coactivator or a corepressor,depending on the context.Acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed.Acts as a corepressor by mediating demethylation of H3K4me,a specific tag for epigenetic transcriptional activation.Demethylates both mono- (H3K4me1) and di-methylated (H3K4me2) H3K4me.May play a role in the repression of neuronal genes.Alone,it is unable to demethylate H3K4me on nucleosomes and requires the presence of RCOR1/COREST to achieve such activity.Also acts as a coactivator of androgen receptor (ANDR)-dependent transcription,by being recruited to ANDR target genes and mediating demethylation of H3K9me,a specific tag for epigenetic transcriptional repression.The presence of PRKCB in ANDR-containing complexes,which mediates phosphorylation of 'Thr-6' of histone H3 (H3T6ph),a specific tag that prevents demethylated 'Lys-370' of p53/TP53 which prevents interaction of p53/TP53 with TP53BP1 and represses p53/TP53-mediated transcriptional activation.Demethylates and stabilizes the DNA methylase DNMT1.Required for gastrulation during embryogenesis.Component of a RCOR/GFI/KDM1A/HDAC complex that suppresses,via histone deacetylase (HDAC) recruitment,a number of genes implicated in multilineage blood cell development.Effector of SNAI1-mediated transcription repression of E-cadherin/CDH1,CDN7 and KRT8.Required for the maintenance of the silenced state of the SNAI1 target genes E-cadherin/CDH1 and CDN7.
Histone demethylase that demethylates both 'Lys-4' (H3K4me) and 'Lys-9' (H3K9me) of histone H3, thereby acting as a coactivator or a corepressor, depending on the context. Acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. Acts as a corepressor by mediating demethylation of H3K4me, a specific tag for epigenetic transcriptional activation. Demethylates both mono- (H3K4me1) and di-methylated (H3K4me2) H3K4me. May play a role in the repression of neuronal genes. Alone, it is unable to demethylate H3K4me on nucleosomes and requires the presence of RCOR1/CoREST to achieve such activity. Also acts as a coactivator of androgen receptor (ANDR)-dependent transcription, by being recruited to ANDR target genes and mediating demethylation of H3K9me, a specific tag for epigenetic transcriptional repression. The presence of PRKCB in ANDR-containing complexes, which mediates phosphorylation of 'Thr-6' of histone H3 (H3T6ph), a specific tag that prevents demethylated 'Lys-370' of p53/TP53 which prevents interaction of p53/TP53 with TP53BP1 and represses p53/TP53-mediated transcriptional activation. Demethylates and stabilizes the DNA methylase DNMT1. Required for gastrulation during embryogenesis. Component of a RCOR/GFI/KDM1A/HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development. Effector of SNAI1-mediated transcription repression of E-cadherin/CDH1, CDN7 and KRT8. Required for the maintenance of the silenced state of the SNAI1 target genes E-cadherin/CDH1 and CDN7. [UniProt]
Gene Regulation antibody
93 kDa
Polyubiquitinated by JADE2; which leads to its proteasomal degradation.
Nucleus



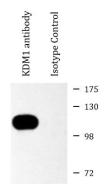
ARG53984 anti-KDM1 / LSD1 antibody ICC/IF image

Immunofluorescence: HeLa cells fixed with 4% Paraformaldehyde and stained with ARG53984 anti-KDM1 / LSD1 antibody at 1:100 dilution.



ARG53984 anti-KDM1 / LSD1 antibody WB image

Western blot: HCT116 cell lysate stained with ARG53984 anti-KDM1 / LSD1 antibody at 1:1000 dilution.



ARG53984 anti-KDM1 / LSD1 antibody IP image

Immunoprecipitation: HeLa cell lysates were immunoprecipitated and stained with ARG53984 anti-KDM1 / LSD1 antibody.