

KDM4B / JMJD2B Rabbit mAb

Catalog # AP75651

Product Information

Application	WB, IHC-P, FC, IP
Primary Accession	O94953
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	121897

Additional Information

Gene ID	23030
Other Names	KDM4B
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:200-1:1000 IP~~1:200-1:1000
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

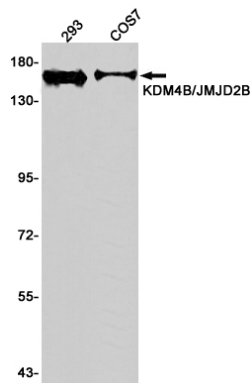
Protein Information

Name	KDM4B
Synonyms	JHDM3B, JMJD2B, KIAA0876
Function	Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys- 20'. Only able to demethylate trimethylated H3 'Lys-9', with a weaker activity than KDM4A, KDM4C and KDM4D. Demethylation of Lys residue generates formaldehyde and succinate (PubMed: 16603238 , PubMed: 28262558). Plays a critical role in the development of the central nervous system (CNS).
Cellular Location	Nucleus {ECO:0000255 PROSITE-ProRule:PRU00537, ECO:0000269 PubMed:15927959}

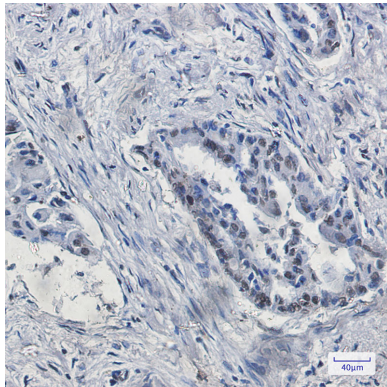
Background

Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys-20'. Only able to demethylate trimethylated H3 'Lys-9', with a weaker activity than KDM4A, KDM4C and KDM4D. Demethylation of Lys residue generates formaldehyde and succinate.

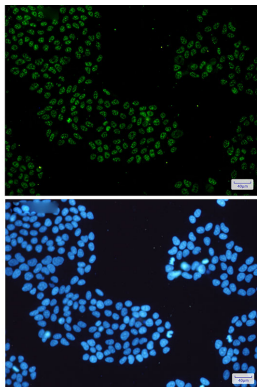
Images



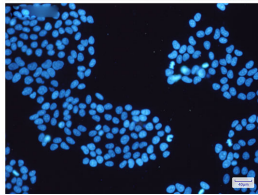
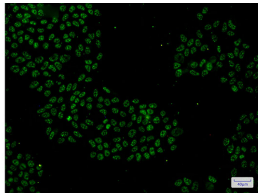
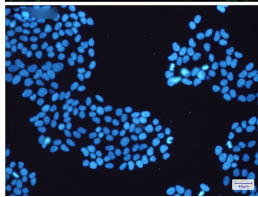
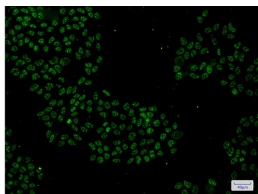
Western blot analysis of KDM4B in 293, COS7 lysates using KDM4B antibody.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer using KDM4B/JMJD2B antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunocytochemistry analysis of KDM4B/JMJD2B (green) in HeLa using KDM4B/JMJD2B antibody, and DAPI (blue)



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