Product Name: KDM3A Mouse Monoclonal Antibody
Catalog #: AMM80919
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ELISA
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000
Molecular Weight	147kDa

Antigen Information

Gene Name	KDM3A
Alternative Names	TSGA; JMJD1; JHDM2A; JHMD2A; JMJD1A; KIAA0742; DKFZp686A24246; DKFZp686P07111; KDM3A
Gene ID	55818.0
SwissProt ID	Q9Y4C1
Immunogen	Purified recombinant fragment of human KDM3A expressed in E. Coli.

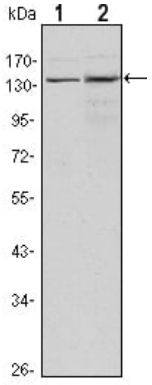
Background

This gene encodes a zinc finger protein that contains a jumonji domain and may play a role in hormone-dependent transcriptional activation. JMJD1A functions as a mono- and dimethylation-specific demethylase, binding iron and -

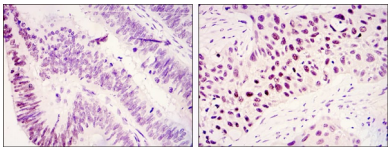
ketoglutarate as cofactors and demethylating Lysine 9 of Histone H3. This suggests that JMJD1A plays a central role in the histone code and participates in nuclear hormone receptor-based transcriptional regulation. In addition, JMJD1A plays an important role in the regulation of cell growth during development and in chromatin regulation. JMJD1A directly regulates the expression of TNP1 and Protamine 1 (proteins required for the proper packaging and condensation of sperm chromatin) and, therefore, plays an essential role in spermatogenesis.

Research Area

Image Data



Western blot analysis using KDM3A mouse mAb against Hela (1) and HepG2 (2) cell lysate.



Immunohistochemical analysis of paraffin-embedded human colonic cancer tissues (left) and lung cancer tissues (right) using KDM3A mouse mAb with DAB staining.