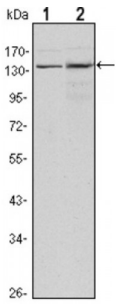
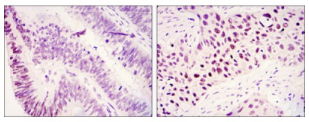
Lysine-Specific Demethylase 3A (KDM3A) Antibody

Catalogue No.:abx012111



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



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

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 a-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.

Target:	Lysine-Specific Demethylase 3A (KDM3A)
Clonality:	Monoclonal
Reactivity:	Human
Tested Applications:	ELISA, WB, IHC
Host:	Mouse
Recommended dilutions:	ELISA: 1/10000, WB: 1/500 - 1/2000, IHC: 1/200 - 1/1000. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	Purified recombinant fragment of human KDM3A expressed in E. coli.

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Isotype:	IgG_1
Form:	Liquid
Purification:	Unpurified ascites.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	Q9Y4C1 (UniProt, ExPASy)
Gene Symbol:	KDM3A
GeneID:	55818
OMIM:	611512
HGNC:	20815
Ensembl:	ENSG00000115548
String:	9606.ENSP00000386660
Molecular Weight:	147 kDa
Buffer:	Ascitic fluid containing 0.03% sodium azide.
Concentration:	Not determined.
Note:	This product is for research use only.

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