

Product datasheet for TA336804

KDM3A / JHDM2A (KDM3A) Mouse Monoclonal Antibody [Clone ID: 1E12]

Product data:

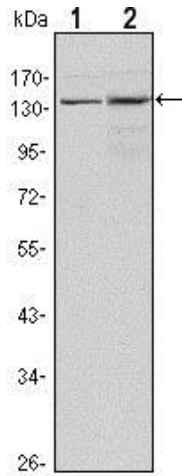
Product Type:	Primary Antibodies
Clone Name:	1E12
Applications:	IF, IHC, WB
Recommend Dilution:	WB: 1:500-1:2000, ELISA: 1:10000, IF: 1:10-1:500, IHC: 1:200-1:1000, IHC-P: 1:200-1:1000
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human JMJD1A expressed in E. coli. [UniProt# Q9Y4C1]
Formulation:	Preservative: 0.05% Sodium Azide. Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Concentration:	This product is unpurified. The exact concentration of antibody is not quantifiable.
Purification:	Ascites
Predicted Protein Size:	147 kDa
Gene Name:	lysine demethylase 3A
Database Link:	NP_001140160 Entrez Gene 55818 Human
Background:	JMJD1A is a histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. It preferentially demethylates mono- and dimethylated H3 'Lys-9' residue, with a preference for dimethylated residue, while it has weak or no activity on trimethylated H3 'Lys-9'. Demethylation of Lys residue generates formaldehyde and succinate. JMJD1A is involved in hormone-dependent transcriptional activation, by participating in recruitment to androgen-receptor target genes, resulting in H3 'Lys-9' demethylation and transcriptional activation. It's also Involved in spermatogenesis by regulating expression of target genes such as PRM1 and TMP1 which are required for packaging and condensation of sperm chromatin. Involved in obesity resistance through regulation of metabolic genes such as PPARA and UCP1.
Synonyms:	JHDM2A; JHMD2A; JMJD1; JMJD1A; TSGA



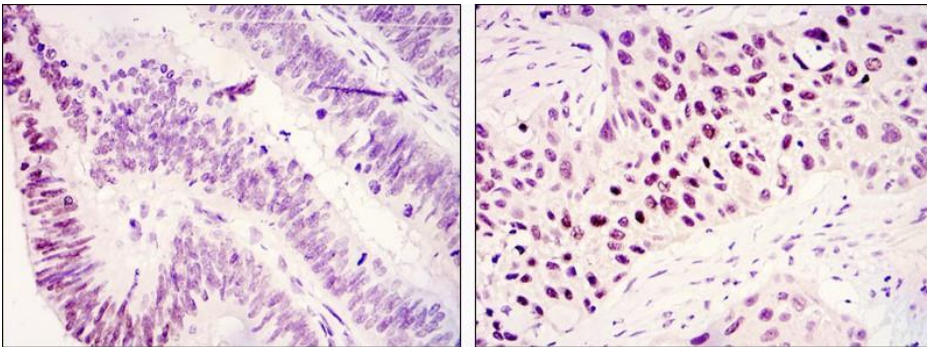
[View online »](#)

Note: This JMJD1A (1E12) antibody is useful in Western Blot, ELISA and Immunohistochemistry on paraffin-embedded sections.

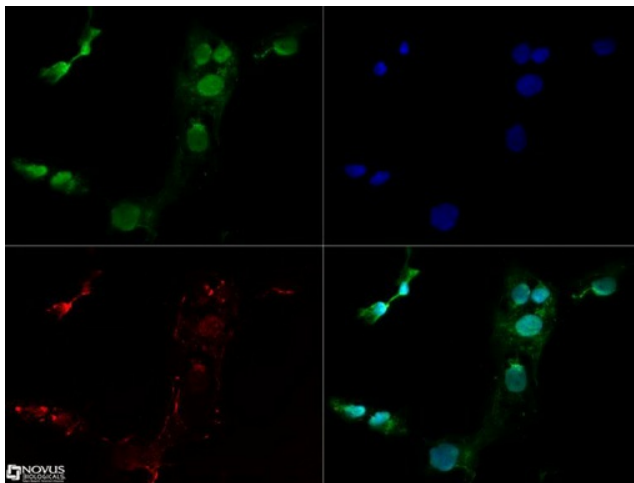
Product images:



Western Blot: JMJD1A Antibody (1E12) TA336804 - Western blot analysis using JMJD1A mouse mAb against HeLa (1) and HepG2 (2) cell lysates.



Immunohistochemistry-Paraffin: JMJD1A Antibody (1E12) TA336804 - Immunohistochemical analysis of paraffin-embedded colonic cancer tissues (left) and lung cancer tissues (right) using JMJD1A mouse mAb with DAB staining.



Immunocytochemistry/Immunofluorescence: JMJD1A Antibody (1E12) TA336804 - JMJD1A antibody was tested at 1:10 in Ntera2 cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). Image objective 4