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Product datasheet for TA336795

KDM4A Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, Simple Western, WB
Recommended Dilution:	Immunohistochemistry: 1:50, Immunocytochemistry/ Immunofluorescence: 1:100, Immunohistochemistry-Paraffin: 1:50, Simple Western: 1:500, Western Blot: 1:1000 - 1:2000
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A genomic peptide made to an internal region of the human JMJD2A protein (within residues 320-460). [Swiss-Prot O75164]
Formulation:	PBS, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	lysine demethylase 4A
Database Link:	NP_055478 Entrez Gene 230674 MouseEntrez Gene 9682 Human O75164

View online »

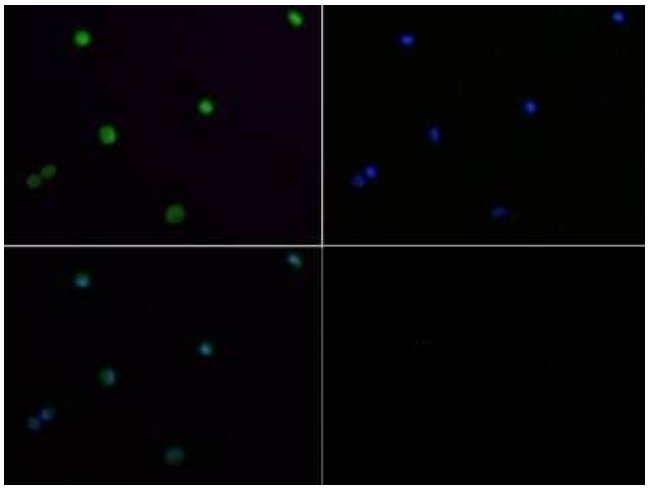
Background: Jumonji lysine demethylases (JMJDs) are oxygenases catalyzing demethylation of mono-, di-, or trimethylated lysines, and its members (JMJD2A, JMJD2B, JMJD2C, and JMJD2D) are Fe(II)- and alpha-ketoglutarate-dependent enzymes harboring a JmjC catalytic domain. JMJD2A (JHDM3 or KDM4A) catalyzes the demethylation of di- and trimethylated H3K9 and H3K36 and participate in transcriptional repression of ASCL2 and E2F-responsive promoters via the recruitment of HDACs and NCOR1, respectively. JMJD2A as well as JMJD2C have been suggested to act as co-activators of AR-dependent gene transcription. JMJD2A is widely expressed in human tissues and cell lines with high expression in human T-cell lymphotropic virus 1-infected cell lines, HT1376 bladder carcinoma cell line, U2OS osteosarcoma cell line and prostate cancer cell lines. JMJD2A is overexpressed in mouse and human lung cancers has been proposed as an oncogene that represents a target for Ras-expressing tumors. Silencing of JMJD2A gene has been shown to result in cell cycle change and proliferation inhibition, and suppression of tumor cell migration/ invasion.

Synonyms: JHDM3A; JMJD2; JMJD2A; TDRD14A

Note: This JMJD2A antibody is useful for Immunohistochemistry on paraffin tissues, Immunocytochemistry/Immunofluorescence and Western blot where a band is seen ~119 kDa. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

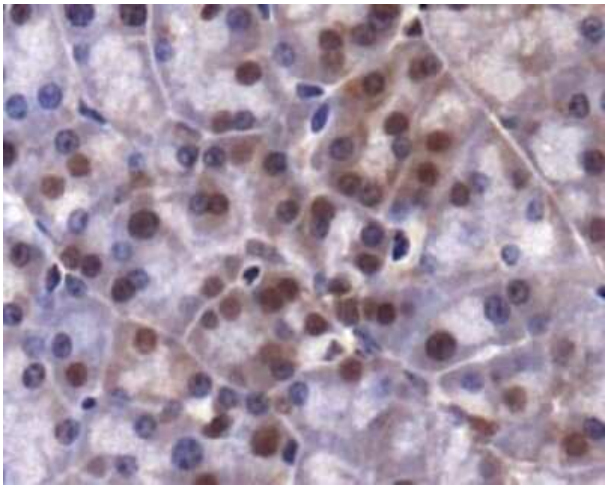
Protein Families: Druggable Genome, Transcription Factors

Product images:

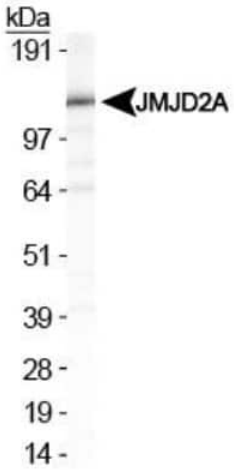


Immunocytochemistry/Immunofluorescence: Lysine (K)-specific Demethylase 4A/KDM4A/JMJD2A Antibody TA336795 - Antibody was tested at 1:50 in HeLa cells with FITC (green). Nuclei (Blue) were counterstained with Dapi (blue).

Simple Western: Lysine (K)-specific Demethylase 4A/KDM4A/JMJD2A Antibody TA336795 - Simple Western lane view shows a specific band for JMJD2A in 0.5 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Immunohistochemistry: Lysine (K)-specific Demethylase 4A/KDM4A/JMJD2A Antibody TA336795 - Staining of JMJD2A in paraffin embedded mouse pancreas.



Western Blot: Lysine (K)-specific Demethylase 4A/KDM4A/JMJD2A Antibody TA336795 - Analysis of JMJDA in HeLa nuclear extracts.