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JMJD2C Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11444b

Product Information

Application	WB, FC, E
Primary Accession	Q9H3R0
Other Accession	Q8VCD7, NP_001140167.1, NP_001140166.1, NP_001140168.1
Reactivity	Human, Mouse
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB10796
Calculated MW	119982
Antigen Region	1023-1056

Additional Information

Gene ID	23081
Other Names	Lysine-specific demethylase 4C, 11411-, Gene amplified in squamous cell carcinoma 1 protein, GASC-1 protein, JmjC domain-containing histone demethylation protein 3C, Jumonji domain-containing protein 2C, KDM4C, GASC1, JHDM3C, JMJD2C, KIAA0780
Target/Specificity	This JMJD2C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1023-1056 amino acids from the C-terminal region of human JMJD2C.
Dilution	WB~~1:1000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	JMJD2C Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KDM4C

Synonyms	GASC1, JHDM3C, JMJD2C, KIAA0780
Function	Histone demethylase that specifically demethylates 'Lys-9' and 'Lys-36' residues of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27' nor H4 'Lys-20'. Demethylates trimethylated H3 'Lys-9' and H3 'Lys-36' residue, while it has no activity on mono- and dimethylated residues. Demethylation of Lys residue generates formaldehyde and succinate.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00537}.
Tissue Location	Overexpressed in several esophageal squamous cell carcinomas (ESCs).

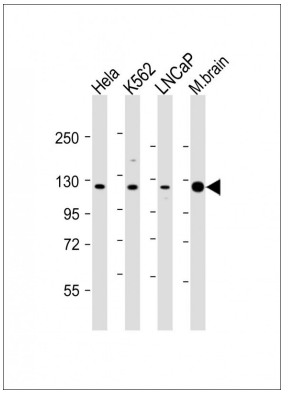
Background

This gene is a member of the Jumonji domain 2 (JMJD2) family and encodes a protein with one JmjC domain, one JmjN domain, two PHD-type zinc fingers, and two Tudor domains. This nuclear protein functions as a trimethylation-specific demethylase, converting specific trimethylated histone residues to the dimethylated form. Chromosomal aberrations and increased transcriptional expression of this gene are associated with esophageal squamous cell carcinoma. Alternative splicing results in multiple transcript variants.

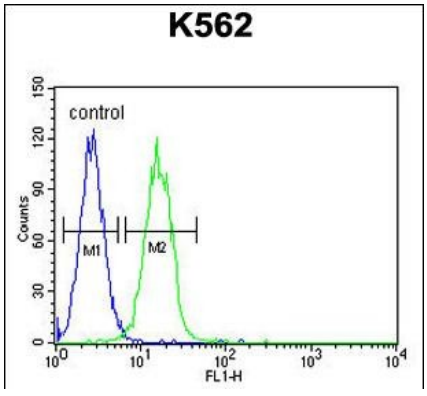
References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Suikki, H.E., et al. Prostate 70(8):889-898(2010)
Kantojarvi, K., et al. Psychiatr. Genet. 20(3):102-108(2010)
Liu, G., et al. Oncogene 28(50):4491-4500(2009)
Canova, C., et al. Cancer Res. 69(7):2956-2965(2009)

Images



All lanes : Anti-JMJD2C Antibody (C-term) at 1:2000 dilution Lane 1: Hela whole cell lysates Lane 2: K562 whole cell lysates Lane 3: LNCaP whole cell lysates Lane 4: mouse brain lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 120 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



JMJD2C Antibody (C-term) (Cat. #AP11444b) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- Exosomal circPABPC1 promotes colorectal cancer liver metastases by regulating HMGA2 in the nucleus and BMP4/ADAM19 in the cytoplasm

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.