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GASC1/KDM4C Rabbit pAb

Catalog # AP99189

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H3R0
Other Accession	Q9H3R0
Reactivity	Human, Mouse
Predicted	Rat, Pig, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	119982
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KDM4C/GASC1/JMJD2C
Epitope Specificity	201-300/1056
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the JHDM3 histone demethylase family.Contains 1 JmjC domain.Contains 1 JmjN domain.Contains 2 PHD-type zinc fingers.Contains 2 Tudor domains.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	KDM4C/JMJD2C, a jumonji domain containing protein, is a histone demethylase. JMJD2C specifically demethylates Lysine 9 and Lysine 36 residues of Histone H3, thereby playing a central role in regulating histone modifications.

Additional Information

Gene ID	23081
Other Names	GASC1; JHDM3C; JMJD2C; TDRD14C; 2410141F18Rik; KDM4C_HUMAN; KDM4C; Gene amplified in squamous cell carcinoma 1 protein (GASC-1 protein); JmjC domain-containing histone demethylation protein 3C; Jumonji domain-containing protein 2C; [histone H3]-trimethyl-L-lysine(9) demethylase 4C; 1.14.11.66; KIAA0780; KDM4C_MOUSE; lysine demethylase 4C; jumonji domain containing 2C; lysine (K)-specific demethylase 4C; tudor domain containing 14C
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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).

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