

# GASC1/KDM4C Rabbit pAb

Catalog # AP99189

## Product Information

|                                |                                                                                                                                                                                                                                  |
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| <b>Application</b>             | IHC-P, IHC-F, IF                                                                                                                                                                                                                 |
| <b>Primary Accession</b>       | <a href="#">Q9H3R0</a>                                                                                                                                                                                                           |
| <b>Other Accession</b>         | <a href="#">Q9H3R0</a>                                                                                                                                                                                                           |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                           |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                       |
| <b>Calculated MW</b>           | 119982                                                                                                                                                                                                                           |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                           |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human KDM4C/GASC1/JMJD2C                                                                                                                                                           |
| <b>Epitope Specificity</b>     | 201-300/1056                                                                                                                                                                                                                     |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                              |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                   |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                |
| <b>SIMILARITY</b>              | 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.                                                                         |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                        |
| <b>Background Descriptions</b> | 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

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| <b>Gene ID</b>     | 23081                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Other Names</b> | 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 |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>     | 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

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| <b>Name</b>              | KDM4C                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>          | GASC1, JHDM3C, JMJD2C, KIAA0780                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Function</b>          | 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. |
| <b>Cellular Location</b> | Nucleus {ECO:0000255 PROSITE-ProRule:PRU00537}.                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Tissue Location</b>   | 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'.