KDM3A, JMJD1A
Polyclonal ANTIBODY

Catalog Number: 12835-1-AP

Basic Information

Catalog Number: 12835-1-AP
Size: 20 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification

Immunogen Catalog Number: AG3581
GenBank Accession Number: BC038297
GeneID (NCBI): 55818
Full Name: lysine (K)-specific demethylase 3A
Calculated MW: 150 kDa
Observed MW: 150 kDa

Recommended Dilutions:
WB: 1:1000-1:4000
IP: 0.5-4.0 μg for IP and 1:1000-2000 for WB
IHC: 1:200-1:400
IF: 1:50-1:100

Applications

Tested Applications: ELISA, WB, IHC, IF
Cited Applications: ChIP, IF, IHC, WB

Species Specificity:
human, mouse

Positive Controls:
WB: HeLa cells; MCF-7 cells
IP: HeLa cells;
IHC: human ovary tumor tissue; human kidney tissue, human ovary tissue
IF: HepG2 cells;

Background Information

KDM3A, also name as JMJD1A, JHDM3A, JMJD1, JMD1, JMD01, KIAA0742 and TSGA, belongs to the JHDM2 histone demethylase family. It is a histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. It is involved in spermatogenesis by regulating expression of target genes such as PRM1 and TMP1 which are required for packaging and condensation of sperm chromatin. It is involved in obesity resistance through regulation of metabolic genes such as PPARα and UCP1. (PubMed:16603237), JMJD1A is a useful biomarker for hypoxic tumor cells and a prognostic marker that could be a promising therapeutic target against CRC. (PMID:20823141) This antibody recognize the N-term of KDM3A (JMJD1A).

Notable Publications

Author: Min Zhan
PubMed ID: 26945572
Journal: Tumour Biol
Application: WB, IHC

Author: Kevin Y Kim
PubMed ID: 23576503
Journal: J Virol
Application: ChIP, IF

Author: Jun Ueda
PubMed ID: 25071150
Journal: Mi Cell Biol
Application: WB, IHC

Storage

Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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For technical support and original validation data for this product please contact:
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W: ptglab.com

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HeLa cells were subjected to SDS PAGE followed by western blot with 12835-1-AP(KDM3A,JMJD1A antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.


Immunohistochemical of paraffin-embedded human ovary tumor using 12835-1-AP(KDM3A, JMJD1A antibody) at dilution of 1:100 (under 10x lens).

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 12835-1-AP(KDM3A, JMJD1A antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).