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KDM3A/JMJD1A Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56473

Product Information

Application	IHC-P, IHC-F, ICC, E
Primary Accession	Q9Y4C1
Reactivity	Rat, Pig, Dog, Chimpanzee, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	147341

Additional Information

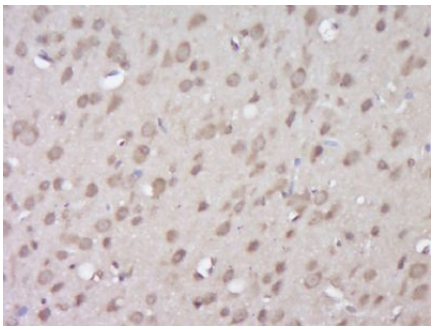
Gene ID	55818
Other Names	Lysine-specific demethylase 3A, 1.14.11.65, JmjC domain-containing histone demethylation protein 2A, Jumonji domain-containing protein 1A, [histone H3]-dimethyl-L-lysine(9) demethylase 3A, KDM3A, JHDM2A, JMJD1, JMJD1A, KIAA0742, TSGA
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,ELISA=1:5000-10000
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	KDM3A
Synonyms	JHDM2A, JMJD1, JMJD1A, KIAA0742, TSGA
Function	Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Preferentially demethylates mono- and dimethylated H3 'Lys-9' residue, with a preference for dimethylated residue, while it has weak or no activity on trimethylated H3 'Lys-9'. Demethylation of Lys residue generates formaldehyde and succinate. Involved in hormone-dependent transcriptional activation, by participating in recruitment to androgen-receptor target genes, resulting in H3 'Lys-9' demethylation and transcriptional activation. Involved in spermatogenesis by regulating expression of target genes such as PRM1 and TNP1 which are required for packaging and condensation of sperm chromatin. Involved in obesity resistance through regulation of metabolic genes such as PPARA and UCP1.
Cellular Location	Cytoplasm. Nucleus. Note=Nuclear in round spermatids. When spermatids

start to elongate, localizes to the cytoplasm where it forms distinct foci which disappear in mature spermatozoa (By similarity).

Images



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KDM3A) Polyclonal Antibody, Unconjugated (AP56473) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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