10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KDM6A Rabbit pAb

Catalog # AP99921

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O15550
Other Accession	O15550
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	154177
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KDM6A
Epitope Specificity	661-750/1401
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 UTX family. Contains 1 JmjC domain. Contains 8 TPR repeats.
SUBUNIT	Interacts with TLE1 (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene is located on the X chromosome and is the corresponding locus to a Y-linked gene which encodes a tetratricopeptide repeat (TPR) protein. The encoded protein of this gene contains a JmjC-domain and catalyzes the demethylation of tri/dimethylated histone H3. [provided by RefSeq, Nov 2009]

Additional Information

Gene ID	7403
Other Names	KDM6A_HUMAN; KDM6A; Histone demethylase UTX; Ubiquitously-transcribed TPR protein on the X chromosome; Ubiquitously-transcribed X chromosome tetratricopeptide repeat protein; [histone H3]-trimethyl-L-lysine(27) demethylase 6A; 1.14.11.68; UTX; KDM6A_MOUSE; Ubiquitously transcribed TPR protein on the X chromosome; Ubiquitously transcribed X chromosome tetratricopeptide repeat protein; lysine demethylase 6A; ubiquitously transcribed tetratricopeptide repeat, X chromosome; lysine (K)-specific demethylase 6A
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	KDM6A
Synonyms	UTX
Function	Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code (PubMed:17713478, PubMed:17761849, PubMed:17851529). Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-27' (PubMed:17713478, PubMed:17761849, PubMed:17851529). Plays a central role in regulation of posterior development, by regulating HOX gene expression (PubMed:17851529). Demethylation of 'Lys-27' of histone H3 is concomitant with methylation of 'Lys-4' of histone H3, and regulates the recruitment of the PRC1 complex and monoubiquitination of histone H2A (PubMed:17761849). Plays a demethylase-independent role in chromatin remodeling to regulate T-box family member-dependent gene expression (By similarity).
Cellular Location	Nucleus.

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