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KDM6A Recombinant Rabbit mAb

Catalog # AP100078

Product Information

Application	WB, IHC-P, IHC-F, IF, IP, E
Primary Accession	O15550
Other Accession	O15550
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	154177
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).
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; Lysine-specific demethylase 6A (Histone demethylase UTX) (Ubiquitously-transcribed TPR protein on the X chromosome) (Ubiquitously-transcribed X chromosome tetratricopeptide repeat protein)
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10000,IP=1:50-200
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.

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