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

KDM6A Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2213a

Product Information

Application	WB, FC, E
Primary Accession	O15550
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5C2A9
Isotype	IgG2a
Calculated MW	154177
Description	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. Multiple alternatively spliced transcript variants have been found for this gene.
Immunogen	Purified recombinant fragment of human KDM6A (AA: 1252-1401) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	7403
Other Names	Lysine-specific demethylase 6A, 1.14.11.-, Histone demethylase UTX, Ubiquitously-transcribed TPR protein on the X chromosome, Ubiquitously-transcribed X chromosome tetratricopeptide repeat protein, KDM6A, UTX
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	KDM6A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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.

References

1.Stem Cells. 2014 Mar;32(3):802-15. 2.Proc Natl Acad Sci U S A. 2011 Feb 1;108(5):2130-5.

Images