

# KDM6A Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO2214a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">O15550</a>
<b>Reactivity</b>	Human, Rat
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	6E2D6
<b>Isotype</b>	IgG2a
<b>Calculated MW</b>	154177
<b>Description</b>	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.
<b>Immunogen</b>	Purified recombinant fragment of human KDM6A (AA: 1252-1401) expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide

## Additional Information

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<b>Gene ID</b>	7403
<b>Other Names</b>	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
<b>Dilution</b>	WB~~1/500 - 1/2000 E~~1/10000
<b>Storage</b>	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.
<b>Precautions</b>	KDM6A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	KDM6A
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## 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

