

**KDM6A Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2213a****Specification****KDM6A Antibody - Product Information**

Application	WB, FC, E
Primary Accession	<a href="#">O15550</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Calculated MW	154kDa KDa

**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

**KDM6A Antibody - 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.

**KDM6A Antibody - 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:<a href="http://www.uniprot.org/citations/17713478" target="\_blank">17713478</a>, PubMed:<a href="http://www.uniprot.org/citations/17761849" target="\_blank">17761849</a>, PubMed:<a href="http://www.uniprot.org/citations/17851529" target="\_blank">17851529</a>). Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-27' (PubMed:<a href="http://www.uniprot.org/citations/17713478" target="\_blank">17713478</a>, PubMed:<a href="http://www.uniprot.org/citations/17761849" target="\_blank">17761849</a>, PubMed:<a href="http://www.uniprot.org/citations/17851529" target="\_blank">17851529</a>). Plays a central role in regulation of posterior development, by regulating HOX gene expression (PubMed:<a href="http://www.uniprot.org/citations/17851529" target="\_blank">17851529</a>). 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:<a href="http://www.uniprot.org/citations/17761849" target="\_blank">17761849</a>). Plays a demethylase-independent role in chromatin remodeling to regulate T-box family member-dependent gene expression (By similarity).

**Cellular Location**

Nucleus.

**KDM6A Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)