

# KDM6A Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21261c

## Product Information

---

|                   |                        |
|-------------------|------------------------|
| Application       | WB, E                  |
| Primary Accession | <a href="#">O15550</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | polyclonal             |
| Isotype           | Rabbit IgG             |
| Clone Names       | RB51279                |
| Calculated MW     | 154177                 |

## Additional Information

---

|                    |   |
|--------------------|---|
| Gene ID            | 7403  |
| Other Names        | Lysine-specific demethylase 6A, 11411-, Histone demethylase UTX, Ubiquitously-transcribed TPR protein on the X chromosome, Ubiquitously-transcribed X chromosome tetratricopeptide repeat protein, KDM6A, UTX |
| Target/Specificity | This KDM6A antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 797-832 amino acids from the Central region of human KDM6A.  |
| Dilution           | WB~~1:2000 E~~Use at an assay dependent concentration.  |
| Format             | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.                                  |
| Storage            | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.   |
| Precautions        | KDM6A Antibody (Center) 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.

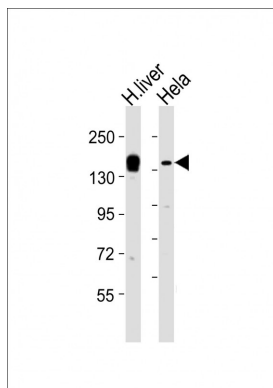
## Background

Histone demethylase that specifically demethylates 'Lys- 27' of histone H3, thereby playing a central role in histone code. Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-27'. Plays a central role in regulation of posterior development, by regulating HOX gene expression. 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.

## References

Lahn B.T.,et al.Science 278:675-680(1997).  
Ross M.T.,et al.Nature 434:325-337(2005).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.  
Cho Y.-W.,et al.J. Biol. Chem. 282:20395-20406(2007).  
Lan F.,et al.Nature 449:689-694(2007).

## Images



All lanes : Anti-KDM6A Antibody (Center) at 1:2000 dilution  
Lane 1: human liver lysates  
Lane 2: Hela whole cell lysates  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution  
Predicted band size : 154 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.

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