



## Rabbit Anti-KDM6B antibody

SL20004R

<b>Product Name:</b>	KDM6B
<b>Chinese Name:</b>	组蛋白去甲基化酶JMJD3抗体
<b>Alias:</b>	Histone demethylase JMJD3; JmjC domain containing protein 3; JmjC domain-containing protein 3; Jumonji D3; Jumonji domain containing 3; Jumonji domain containing 3 histone lysine demethylase; Jumonji domain containing protein 3; Jumonji domain-containing protein 3; Kdm6b; KDM6B_HUMAN; KIAA0346; Lysine demethylase 6B; Lysine K specific demethylase 6B; Lysine specific demethylase 6B; Lysine-specific demethylase 6B.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	177kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human KDM6B:1471-1570/1643
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	JMJD3 is a 1,679 amino acid nuclear protein that contains one JmjC domain and belongs to the highly conserved JmjC domain-containing protein family. Functioning as

a histone demethylase, JMJD3 uses iron and ascorbate as cofactors to demethylate dimethylated and trimethylated Lys-27 residues of Histone H3, thereby playing an important role in the modification of the histone code. Additionally, JMJD3 regulates posterior development and is involved in the inflammatory response, specifically by mediating macrophage differentiation. JMJD3 is also thought to control the expression of neurogenesis-related proteins and, via this regulatory mechanism, may be necessary for neural commitment during early development. Two isoforms of JMJD3 exist due to alternative splicing events.

**Function:**

Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code. Demethylates trimethylated and dimethylated H3 'Lys-27'. Plays a central role in regulation of posterior development, by regulating HOX gene expression. Involved in inflammatory response by participating in macrophage differentiation in case of inflammation by regulating gene expression and macrophage differentiation.

**Subcellular Location:**

Nucleus.

**Similarity:**

Belongs to the UTX family.  
Contains 1 JmjC domain.

**SWISS:**

O15054

**Gene ID:**

23135

**Database links:**

[Entrez Gene: 23135](#) Human

[Entrez Gene: 216850](#) Mouse

[Entrez Gene: 363630](#) Rat

[Omim: 611577](#) Human

[SwissProt: O15054](#) Human

[SwissProt: Q5NCY0](#) Mouse

[Unigene: 223678](#) Human

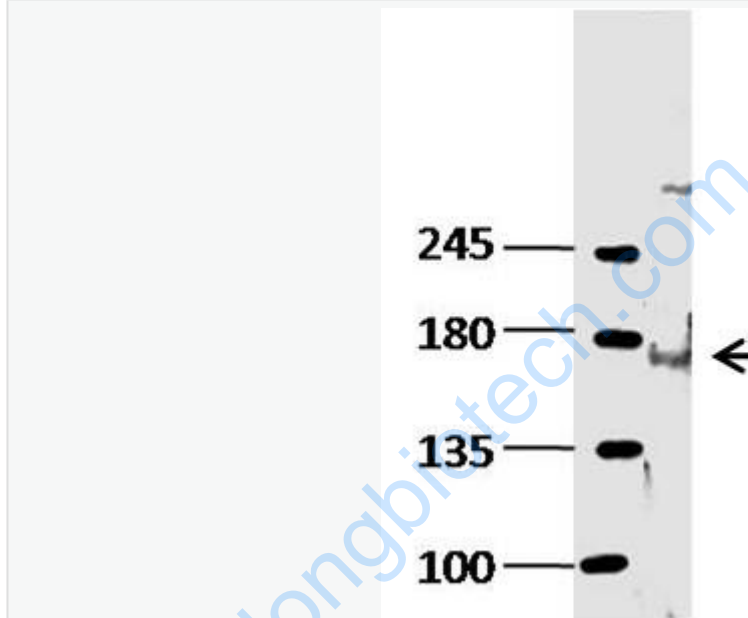
[Unigene: 261201](#) Mouse

[Unigene: 472522](#) Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Picture:**



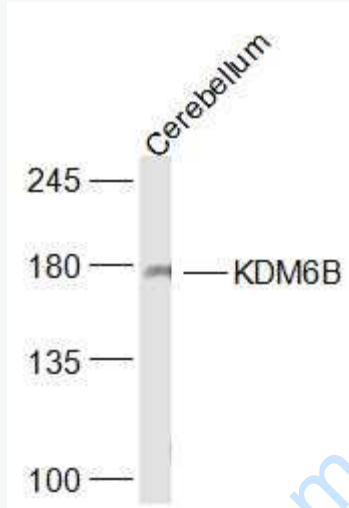
Sample: Cerebellum(Rat) Tissue Lysate at 40 ug

Primary: Anti-KDM6B(SL20004R) at 1:300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1:20000 dilution

Predicted band size: 177 kD

Observed band size: 177 kD



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