

**JHDM2b Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12070c****Specification**

---

**JHDM2b Antibody (Center) - Product Information**

Application	FC, WB,E
Primary Accession	<a href="#">Q7LBC6</a>
Other Accession	<a href="#">Q6ZPY7</a> , <a href="#">NP_057688.2</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	191581
Antigen Region	869-897

**JHDM2b Antibody (Center) - Additional Information****Gene ID** 51780**Other Names**

Lysine-specific demethylase 3B, 11411-, JmjC domain-containing histone demethylation protein 2B, Jumonji domain-containing protein 1B, Nuclear protein 5qNCA, KDM3B, C5orf7, JHDM2B, JMJD1B, KIAA1082

**Target/Specificity**

This JHDM2b antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 869-897 amino acids from the Central region of human JHDM2b.

**Dilution**

FC~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**

JHDM2b Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**JHDM2b Antibody (Center) - Protein Information**

**Name** KDM3B

**Synonyms** C5orf7, JHDM2B, JMJD1B, KIAA1082

**Function** Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Demethylation of Lys residue generates formaldehyde and succinate. May have tumor suppressor activity.

**Cellular Location**

Nucleus.

**Tissue Location**

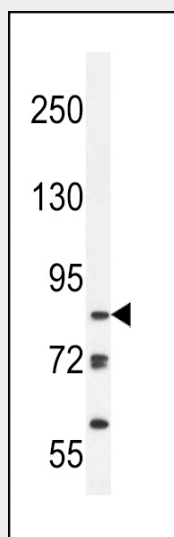
Ubiquitous. Highly expressed in placenta, skeletal muscle, kidney, heart and liver.

### JHDM2b Antibody (Center) - Protocols

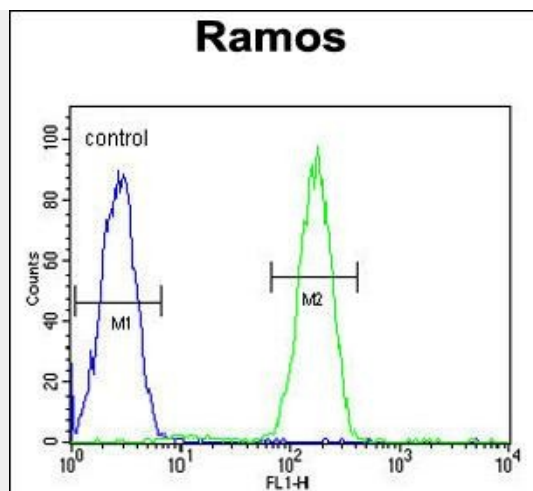
Provided below are standard protocols that you may find useful for product applications.

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

### JHDM2b Antibody (Center) - Images



JHDM2b Antibody (Center) (Cat. #AP12070c) western blot analysis in Ramos cell line lysates (35ug/lane). This demonstrates the JHDM2b antibody detected the JHDM2b protein (arrow).



JHDM2b Antibody (Center) (Cat. #AP12070c) flow cytometric analysis of Ramos cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **JHDM2b Antibody (Center) - Background**

Covalent modification of histones plays critical role in regulating chromatin structure and transcription. While most covalent histone modifications are reversible, only recently has it been established that methyl groups are subject to enzymatic removal from histones. A family of novel JmjC domain-containing histone demethylation (JHDM) enzymes have been identified that perform this specific function. Histone demethylation by JHDM proteins requires cofactors Fe(II) and alpha-ketoglutarate. Family members include JHDM1 (demethylating histone 3 at lysine 36), and JHDM2A as well as JMJD2CH3K9 (both of which demethylate histone 3 at lysine 9). Contributions of histone demethylase activity to tumor development, decreases in cell proliferation, and hormone-dependent transcriptional activation have been observed.

### **JHDM2b Antibody (Center) - References**

Rose, J. Phd, et al. Mol. Med. (2010) In press :  
Olsen, J.V., et al. Cell 127(3):635-648(2006)  
Olsen, J.V., et al. Cell 127(3):635-648(2006)  
Yamane, K., et al. Cell 125(3):483-495(2006)  
Andersen, J.S., et al. Nature 433(7021):77-83(2005)