

**JMJD1B Antibody**  
**Catalog # ASC10967****Specification**

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**JMJD1B Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">Q7LBC6</a>
Other Accession	<a href="#">EAW62141</a> , <a href="#">119582545</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	JMJD1B antibody can be used for detection of JMJD1B by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.

**JMJD1B Antibody - Additional Information**

Gene ID	51780
<b>Target/Specificity</b>	
KDM3B; This antibody will not cross-react with JMJD1A or JMJD1C.	

**Reconstitution & Storage**

JMJD1B antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

JMJD1B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**JMJD1B Antibody - 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**

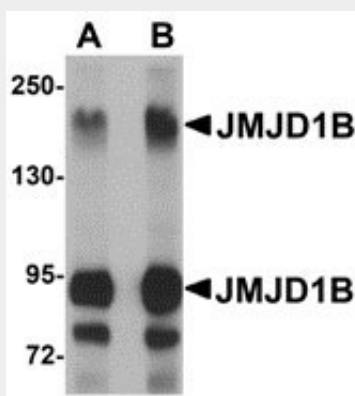
Ubiquitous. Highly expressed in placenta, skeletal muscle, kidney, heart and liver.

### JMJD1B Antibody - Protocols

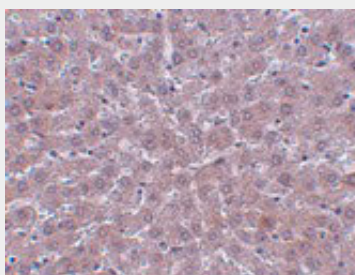
Provided below are standard protocols that you may find useful for product applications.

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

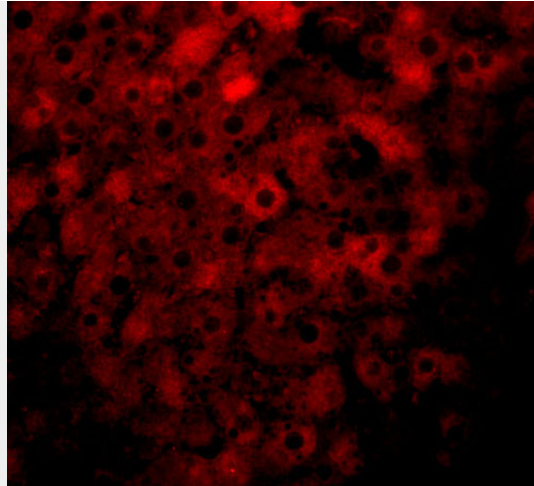
### JMJD1B Antibody - Images



Western blot analysis of JMJD1B in rat liver tissue lysate with JMJD1B antibody at (A) 1 and (B) 2  $\mu\text{g/mL}$ .



Immunohistochemistry of JMJD1B in rat liver tissue with JMJD1B antibody at 2.5  $\mu\text{g/mL}$ .



Immunofluorescence of JMJD1B in rat liver tissue with JMJD1B antibody at 20 µg/mL.

### **JMJD1B Antibody - Background**

**JMJD1B Antibody:** The jumonji domain containing 1B protein (JMJD1B) was originally discovered as a candidate for the myeloid leukemia tumor suppressor gene. Besides CD34+ cells and acute myeloid leukemia (AML) cell lines, JMJD1B mRNA is highly expressed in liver, heart, kidney, skeletal muscle, and placenta tissues. The JMJD1B gene is localized to a region of chromosome 5q31, which is frequently deleted in myeloid leukemias and myelodysplasias and expression of JMJD1B in a del(5q) cell line results in suppression of clonogenic growth suggesting that JMJD1B may function as a tumor suppressor. In contrast, JMJD1B gene copy number and mRNA expression level was increased in several non-small cell lung cancers indicating that the role of JMJD1B in cancer formation and progression is more complex than originally postulated. At least three isoforms of JMJD1B are known to exist.

### **JMJD1B Antibody - References**

Lai F, Godley LA, Fernald AA, et al. cDNA cloning and genomic structure of three genes localized to human chromosome band 5q31 encoding potential nuclear proteins. *Genomics*2000; 70:123-30.  
Hu Z, Gomes I, Horrigan SK, et al. A novel nuclear protein, 5qNCA (LOC51780) is a candidate for the myeloid leukemia tumor suppressor gene on chromosome band q31. *Oncogene*2001; 20:6946-54.  
Baik S-H, Jee B-K, Choi J-S, et al. DNA profiling by array comparative genomic hybridization (CGH) of peripheral blood mononuclear cells (PBMC) and tumor tissue cell in non-small cell lung cancer (NSCLC). *Mol. Biol. Rep.*2009; 36:1767-78.