

JMJD1B Antibody

JMJD1B: 5qNCA, Lysine-specific demethylase 3B, KDM3B

CATALOG No.: 5369

BACKGROUND:

The jumonji domain containing 1B protein (JMJD1B) was originally discovered as a candidate for the myeloid leukemia tumor suppressor gene (1,2). 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 (2) 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 (3). At least three isoforms of JMJD1B are known to exist. This antibody will not cross-react with JMJD1A or JMJD1C.

SOURCE:

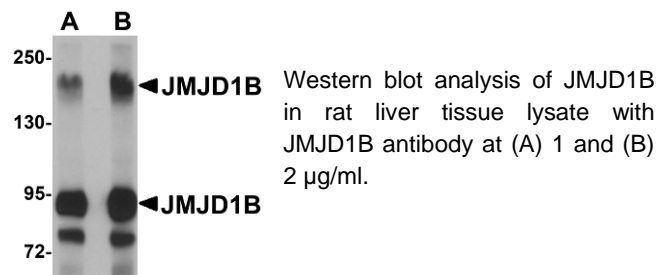
Rabbit polyclonal JMJD1B antibody was raised against a 20 amino acid peptide from near the center of human JMJD1B (GenBank accession no. EAW62141).

STORAGE:

JMJD1B antibody is supplied as immunoaffinity chromatography purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.

APPLICATION:

JMJD1B antibody can be used for detection of JMJD1B by Western blot at 1 - 2 µg/ml. (Optimal dilution should be determined by user.) Rat liver tissue lysate can be used as positive control. JMJD1B antibody is human, mouse and rat reactive. **For research use only.**



RELATED PRODUCTS:

Blocking Peptide, Catalog No. **5369P**.
 Rat Liver Tissue Lysate, Catalog No. **1464**.
 JMJD1A Antibody, Catalog No. **5365**.
 JMJD1C Antibody, Catalog No. **5371**.

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.

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