

JMJD1B (X-25): sc-101987

BACKGROUND

JMJD1B (jumonji domain containing 1B), also known as KDM3B, 5qNCA (5q nuclear co-activator) or C5orf7, is a member of the JHDM2 histone demethylase family of proteins. Expressed in a wide variety of tissues, JMJD1B localizes to the nucleus and contains one JMJC domain and a C-terminal zinc finger motif. JMJD1B functions as a histone demethylase and, using iron as a cofactor, demethylates lysine 9 of Histone H3. This suggests that JMJD1B plays a central role in the histone code. The gene encoding human JMJD1B is located within the 5q region of the genome that is often deleted in myeloid leukemias and myelodysplasias. This implies that JMJD1B may function as a tumor suppressor of myeloid leukemia. Ectopic expression of JMJD1B exhibits growth suppressive activities, further supporting a role for JMJD1B in tumor suppression.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: JMJD1B (human) mapping to 5q31.2; Jmjd1b (mouse) mapping to 18 B3.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

SOURCE

JMJD1B (X-25) is a purified rabbit polyclonal antibody raised against JMJD1B of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

JMJD1B (X-25) is recommended for detection of JMJD1B of mouse, rat, human and dog origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

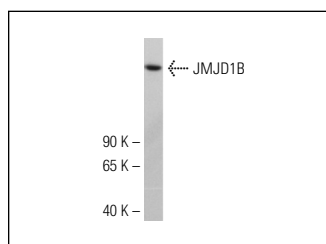
Suitable for use as control antibody for JMJD1B siRNA (h): sc-91707, JMJD1B siRNA (m): sc-146323, JMJD1B shRNA Plasmid (h): sc-91707-SH, JMJD1B shRNA Plasmid (m): sc-146323-SH, JMJD1B shRNA (h) Lentiviral Particles: sc-91707-V and JMJD1B shRNA (m) Lentiviral Particles: sc-146323-V.

Molecular Weight of JMJD1B: 191 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



JMJD1B (X-25): sc-101987. Western blot analysis of JMJD1B expression in fetal thymus tissue extract.

RESEARCH USE

For research use only, not for use in diagnostic procedures.