FOR RESEARCH USE ONLY!

11/18

Anti-JMJD6 Antibody

CATALOG NO.: A1683-100

BACKGROUND DESCRIPTION: Dioxygenase that can both act as a histone arginine demethylase and a lysyl-hydroxylase. Acts as a lysyl-hydroxylase that catalyzes 5-hydroxylation on specific lysine residues of target proteins such as U2AF2/U2AF65 and LUC7L2. Acts as a regulator of RNA splicing by mediating 5-hydroxylation of U2AF2/U2AF65, affecting the pre-mRNA splicing activity of U2AF2/U2AF65. In addition to peptidyl-lysine 5-dioxygenase activity, may act as an RNA hydroxylase, as suggested by its ability to bind single strand RNA. Also acts as an arginine demethylase which demethylates histone H3 at 'Arg-2' (H3R2me) and histone H4 at 'Arg-3' (H4R3me), thereby playing a role in histone code. However, histone arginine demethylation may not constitute the primary activity in vivo. Has no histone lysine demethylase activity. Required for differentiation of multiple organs during embryogenesis. Acts as a key regulator of hematopoietic differentiation: required for angiogenic sprouting by regulating the pre-mRNA splicing activity of U2AF2/U2AF65. Seems to be necessary for the regulation of macrophage cytokine responses.

ALTERNATE NAMES: KIAA0585; PTDSR; Bifunctional arginine demethylase and lysyl-hydroxylase JMJD6; Histone arginine demethylase JMJD6; JmjC domain-containing protein 6; Jumonji domain-containing protein 6; Lysyl-hydroxylase JMJD6; Peptide-lysine 5-dioxygenase JMJD6; Phosphatidylserine receptor; Protein PTDSR.

AMOUNT: 100 µl.

HOST/ISOTYPE: Rabbit / IgG.

IMMUNOGEN: Recombinant full length protein of human JMJD6.

PURIFICATION: Affinity purification.

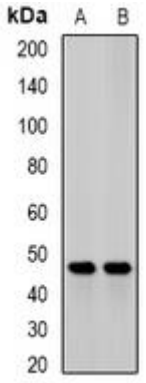
FORM: Liquid.

FORMULATION: In 0.42% Potassium phosphate; 0.87% Sodium chloride; pH 7.3; 30% glycerol; and 0.01% sodium azide.

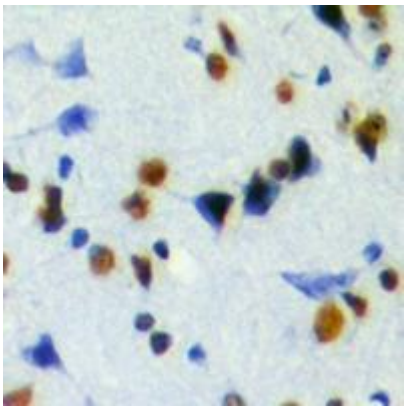
SPECIES REACTIVITY: Rat.
Mouse.
Human.

STORAGE CONDITIONS: Store at -20°C; For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

APPLICATIONS AND USAGE: Immunohistochemistry (IHC).
Western Blotting.



Western blot analysis of JMJD6 expression in mouse heart (A); mouse liver (B) whole cell lysates



IHC analysis of JMJD6 staining in mouse brain tissue.

RELATED PRODUCTS:

JMJD2A (888-1023 aa), Human recombinant (Cat. No. 7678).
JMJD2A Polyclonal Antibody (Cat. No. 6108).
JMJD6 Antibody (Cat. No. 6109).
JMJD6 (2-403 aa), Human recombinant (Cat. No. 7679).

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