abcam

Product datasheet

Anti-JMJD6 antibody ab176172

1 Image

Overview

Product name	Anti-JMJD6 antibody
Description	Rabbit polyclonal to JMJD6
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Horse, Dog, Chimpanzee, Opossum
Immunogen	Recombinant fragment corresponding to Human JMJD6 aa 127-144. Sequence: DSPLYIFDSSYGEHPKRR Database link: **Q6NYC1** Run BLAST with Run BLAST with
Positive control	Human and mouse brain lysates.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 99% PBS, 0.05% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab176172 in the following tested applications.

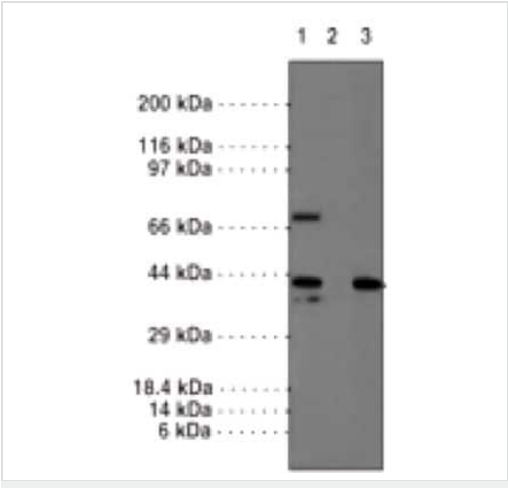
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.25 - 1 µg/ml. Predicted molecular weight: 46 kDa.

Target

Function	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 a 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.
Tissue specificity	Highly expressed in the heart, skeletal muscle and kidney. Expressed at moderate or low level in brain, placenta, lung, liver, pancreas, spleen, thymus, prostate, testis and ovary. Up-regulated in many patients with chronic pancreatitis. Expressed in nursing thymic epithelial cells.
Sequence similarities	Belongs to the JMJD6 family. Contains 1 JmjC domain.
Domain	The nuclear localization signal motifs are necessary and sufficient to target it into the nucleus.
Cellular localization	Nucleus > nucleoplasm. Nucleus > nucleolus. Mainly found throughout the nucleoplasm outside of regions containing heterochromatic DNA, with some localization in nucleolus. During mitosis, excluded from the nucleus and reappears in the telophase of the cell cycle.

Images



Western blot - Anti-JMJD6 antibody (ab176172)

All lanes : Anti-JMJD6 antibody (ab176172) at 1 µg/ml

Lane 1 : Human brain lysate

Lane 2 : Human brain lysate with With Immunizing peptide

Lane 3 : Mouse brain lysate

Predicted band size: 46 kDa

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