**Product datasheet**

**Anti-KDM6B / JMJD3 antibody ab38113**

**Product name**
Anti-KDM6B / JMJD3 antibody

**Description**
Rabbit polyclonal to KDM6B / JMJD3

**Host species**
Rabbit

**Tested applications**
Suitable for: IHC-P, ICC/IF, ChIP

**Species reactivity**
Reacts with: Mouse, Human

**Immunogen**
Synthetic peptide corresponding to Human KDM6B/ JMJD3 aa 1-100 conjugated to keyhole limpet haemocyanin.
Database link: O15054
(Peptide available as ab38112)

**Positive control**
IHC-P: FFPE Human Normal Liver tissue sections. ICC/IF: HeLa cell line

**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 or -80°C. Avoid freeze / thaw cycle.

**Storage buffer**
Preservative: 0.02% Sodium Azide
Constituents: 1% BSA, PBS, pH 7.4

**Purity**
Immunogen affinity purified

**Clonality**
Polyclonal

**Isotype**
IgG

**Applications**

Our Abpromise guarantee covers the use of ab38113 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>IHC-P</td>
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<td>Use a concentration of 5 µg/ml.</td>
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**Function**
Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code. Demethylates trimethylated and dimethylated H3 'Lys-27'. Plays a central role in regulation of posterior development, by regulating HOX gene expression. Involved in inflammatory response by participating in macrophage differentiation in case of inflammation by regulating gene expression and macrophage differentiation.

**Sequence similarities**
Belongs to the UTX family.
Contains 1 JmjC domain.

**Cellular localization**
Nucleus.

**Images**
Chromatin was prepared from mouse hippocampus. Crosslinking (X-ChIP) was performed for 15 minutes with 1% formaldehyde.
ChIP was performed with ab38113 at 1/50 dilution (black) or normal rabbit IgG (white). The positive control was Beta-actin. The negative control was HoxA1 (a polycomb repressed gene in hippocampus).

ChIP - Anti-KDM6B / JMJD3 antibody (ab38113)
Data courtesy of an AbReview by Dr Ernest Palomer Vila

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<td>ChIP</td>
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<td>Use at an assay dependent concentration. PubMed: 23932971</td>
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ab38113 stained in HeLa cells. Cells were fixed with 4% paraformaldehyde (10 min) at room temperature and incubated with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% Triton for 1h at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab38113 at 1µg/ml and ab7291 (Mouse monoclonal to alpha Tubulin - Loading Control) used at a 1/1000 dilution overnight at +4°C. The secondary antibodies were ab150081, Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed, (pseudo-colored green) and ab150120, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594) preadsorbed, (colored red), both used at a 1/1000 dilution for 1 hour at room temperature. DAPI was used to stain the cell nuclei (colored blue) at a concentration of 1.43 µM for 1 hour at room temperature.

IHC image of KDM6B/JMJD3 staining in a section of formalin-fixed paraffin-embedded normal human liver* performed on a Leica BOND™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab38113, 5ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

* Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre

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