**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)

**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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 5 µg/ml.</td>
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<td>ICC/IF</td>
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<tr>
<td>ChIP</td>
<td>★★★★★</td>
<td>Use at an assay dependent concentration. PubMed: 23932971</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).
ICC/IF image of ab38113 stained HeLa cells. The cells were 100% methanol fixed (5 min), permabilised in 0.1% PBS-Tween (20 min) and incubated with the antibody (ab38113, 5µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue). This antibody also gave a positive IF result in Hek293, MCF7 and HepG2 cells fixed in 100% methanol at 5ug/ml. However, this Fast-Track antibody is not yet fully characterised. This image represents inconclusive preliminary data.

IHC image of KDM6B/JMJD3 staining in human liver carcinoma FFPE section, performed on a 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 20 mins. The section was then incubated with ab38113, 5µg/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.

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