Datasheet for ABIN7599752

# anti-Kdm6b antibody (AA 1127-1643)

Go to Product page

## Overview

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| Quantity: | 100 µg |
| Target: | Kdm6b |
| Binding Specificity: | AA 1127-1643 |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Kdm6b antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Flow Cytometry (FACS) |

## Product Details

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| Purpose: | Anti-KDM6B/JMJD3 Picoband® Antibody |
| Immunogen: | E.coli-derived human KDM6B/JMJD3 recombinant protein (Position: R1127-R1643). |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins. |
| Characteristics: | Anti-KDM6B/JMJD3 Picoband® Antibody (ABIN7599752). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Purification: | Immunogen affinity purified. |

## Target Details

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| Target: | Kdm6b |
| Alternative Name: | KDM6B (Kdm6b Products) |
| Background: | Synonyms: Lysine-specific demethylase 6B, JmjC domain-containing protein 3, Jumonji domain-containing protein 3, Lysine demethylase 6B, KDM6B, JMJD3, KIAA0346<br>Tissue Specificity: Expressed in breast cancer cell lines and in normal breast tissue.<br>Background: Lysine demethylase 6B is a protein that in humans is encoded by the KDM6B gene. It is mapped to 17p13.1. The protein encoded by this gene is a lysine-specific demethylase that specifically demethylates di- or tri-methylated lysine 27 of histone H3 (H3K27me2 or H3K27me3). H3K27 trimethylation is a repressive epigenetic mark controlling chromatin organization and gene silencing. This protein can also demethylate non-histone proteins such as retinoblastoma protein. Through its demethylation actvity this gene influences cellular differentiation and development, tumorigenesis, inflammatory diseases, and neurodegenerative diseases. This protein has two classical nuclear localization signals at its N-terminus. Alternative splicing results in multiple transcript variants encoding distinct isoforms. |
| Molecular Weight: | 177 kDa |
| Gene ID: | 23135 |
| UniProt: | O15054 |
| Pathways: | Warburg Effect |

## Application Details

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| Application Notes: | Western blot, 0.25-0.5 µg/mL, Human<br>Flow Cytometry (Fixed), 1-3 µg/1x$10^6$ cells, Human, Mouse<br>ELISA, 0.1-0.5 µg/mL, -<br>1. Ge, C., Ye, J., Weber, C., Sun, W., Zhang, H., Zhou, Y., Cai, C., Qian, G., Capel, B. The histone demethylase KDM6B regulates temperature-dependent sex determination in a turtle species. Science 360: 645-648, 2018. 2. Sen, G. L., Webster, D. E., Barragan, D. I., Chang, H. Y., Khavari, P. A. Control of differentiation in a self-renewing mammalian tissue by the histone demethylase JMJD3. Genes Dev. 22: 1865-1870, 2008. 3. Stolerman, E. S., Francisco, E., Stallworth, J. L., Jones, J. R., Monaghan, K. G., Keller-Ramey, J., Person, R., Wentzensen, I. M., McWalter, K., Keren, B., Heron, B., Nava, C., and 19 others. Genetic variants in the KDM6B gene are associated with neurodevelopmental delays and dysmorphic features. Am. J. Med. Genet. 179A: 1276-1286, 2019. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg $Na_2HPO_4$, 0.05 mg $NaN_3$. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |