Datasheet for ABIN952974

# anti-KDM4B antibody (C-Term)

2 Images | 1 Publication

Go to Product page

## Overview

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| Quantity: | 0.4 mL |
| Target: | KDM4B |
| Binding Specificity: | AA 287-316, C-Term |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This KDM4B antibody is un-conjugated |
| Application: | Western Blotting (WB), Enzyme Immunoassay (EIA) |

## Product Details

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| Immunogen: | KLH conjugated synthetic peptide between 287~316 amino acids from the C-terminal region of human JMJD2B |
| Isotype: | Ig Fraction |
| Specificity: | This antibody recognizes Human and Mouse JMJD2B (Thr305) |
| Purification: | Protein A column, followed by peptide affinity purification |

## Target Details

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| Target: | KDM4B |
| Alternative Name: | JMJD2B / KDM4B (KDM4B Products) |
| Background: | Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a role |

## Target Details

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| | in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys-20'. Only able to demethylate trimethylated H3 'Lys-9', with a weaker activity than KDM4A, KDM4C and KDM4D. Demethylation of Lys residue generates formaldehyde and succinate.Synonyms: JHDM3B, JmjC domain-containing histone demethylation protein 3B, Jumonji domain-containing protein 2B, KIAA0876, Lysine-specific demethylase 4B |
| Molecular Weight: | 121897 Da |
| Gene ID: | 23030 |
| NCBI Accession: | NP_055830 |
| Pathways: | Warburg Effect |

## Application Details

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| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions: | For Research Use only |

## Handling

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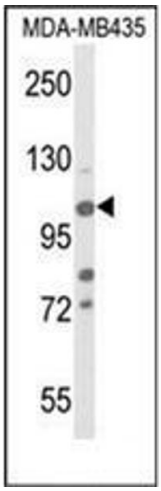
| Format: | Liquid |
| Concentration: | 0.25 mg/mL |
| Buffer: | PBS containing 0.09 % (W/V) Sodium Azide as preservative |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freezing and thawing. |
| Storage: | 4 °C/-20 °C |
| Storage Comment: | Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer. |

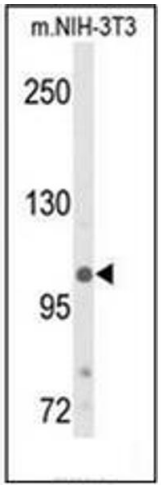
## Publications

| | |
|---|---|
| Product cited in: | Kowiański, Lietzau, Steliga, Czuba, Ludkiewicz, Waśkow, Spodnik, Moryś: "Nicotine-induced CREB and DeltaFosB activity is modified by caffeine in the brain reward system of the rat." in: **Journal of chemical neuroanatomy**, Vol. 88, pp. 1-12, (2018) (PubMed). |




**Western Blotting**

**Image 1.** Western blot analysis of Phospho-JMJD2B-pT305 in MDA-MB435 cell line lysates (35ug/lane). JMJD2B (arrow) was detected using the purified Pab.




**Western Blotting**

**Image 2.** Western blot analysis of Phospho-JMJD2B-pT305 in NIH-3T3 cell line lysates (35ug/lane). JMJD2B (arrow) was detected using the purified Pab.