Product Datasheet

Lysine (K)-specific Demethylase 6B/KDM6B/JMJD3 Antibody - BSA Free NBP1-06640

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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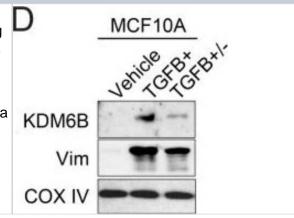
NBP1-06640

Lysine (K)-specific Demethylase 6B/KDM6B/JMJD3 Antibody - BSA Free

| Product Information | |
|---|--|
| 0.1 ml | |
| 1.0 mg/ml | |
| Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. | |
| Polyclonal | |
| 0.1% Sodium Azide | |
| IgG | |
| Immunogen affinity purified | |
| PBS (pH 7.4) | |
| Product Description | |
| Rabbit | |
| 23135 | |
| KDM6B | |
| Human, Mouse | |
| Synthetic peptide made to an internal portion of the mouse JMJD3 protein (within residues 600-650). [Swiss-Prot# Q5NCY0] | |
| Product Application Details | |
| Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry | |
| Western Blot 2 ug/ml, Flow Cytometry reported in scientific literature (PMID 23772023), Immunohistochemistry reported in scientific literature (PMID 35177643), Immunocytochemistry/ Immunofluorescence 1:100 | |
| This JMJD3 antibody is useful for Western blot where a band is seen at ~180 kDa. | |
| | |

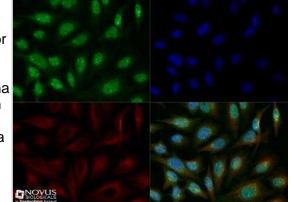
Images

Western Blot: Lysine (K)-specific Demethylase 6B/KDM6B/JMJD3 Antibody [NBP1-06640] - KDM6A protein levels are decreased following EMT and upregulated during MET. MCF10A cells, treated as described, were analyzed by immunoblotting for Lysine (K)-specific Demethylase 6B/KDM6B/JMJD3 and vimentin (Vim). COX IV was used as a loading control. Image collected and cropped by CiteAb from the following publication (https://www.oncotarget.com/fulltext/19214), licensed under a CC-BY license.

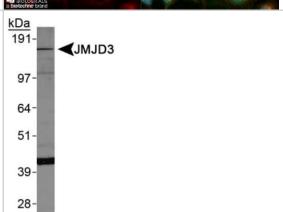




Immunocytochemistry/Immunofluorescence: Lysine (K)-specific Demethylase 6B/KDM6B/JMJD3 Antibody [NBP1-06640] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-JMJD3 [NBP1-06640] at a 1:200 dilution overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) [NB100-690] was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Western Blot: Lysine (K)-specific Demethylase 6B/KDM6B/JMJD3 Antibody [NBP1-06640] - Analysis of JMJD3 expression on HepG2 whole cell lysates.



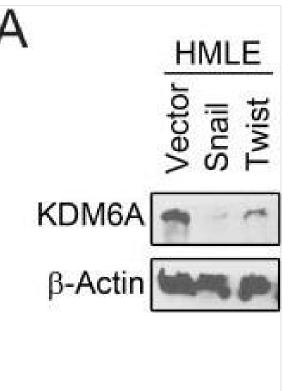
Western Blot: Lysine (K)-specific Demethylase 6B/KDM6B/JMJD3 Antibody [NBP1-06640] - Total protein from human HepG2 and mouse 3T3 cells was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/mL anti-JMJD3 in 1% non-fat milk in TBST and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.

100-75-50-37-25-



Western Blot: Lysine (K)-specific Demethylase 6B/KDM6B/JMJD3 Antibody - BSA Free [NBP1-06640] - KDM6A protein levels are decreased following EMT & upregulated during MET(A) HMLE cells were transduced with either an empty vector (HMLE-Vector), or genes encoding the EMT-inducing transcription factors Snail (HMLE-Snail) or Twist (HMLE-Twist) [4]. Whole-cell lysates were analyzed by immunoblotting for KDM6A. β-actin was used as a loading control. (B-F) MCF10A cells were treated with sterile 4 mM HCI containing 0.1% bovine serum albumin (Vehicle) or TGFB for 5 days (TGFB+). In parallel, MCF10A cells were exposed to TGFB for 5 days in order to induce EMT, & subsequently subjected to TGFB-withdrawal, for a further 5 days, to elicit MET (TGFB+/-). (B-C) MCF10A cells, treated as described, were fixed & immunostained for E-cadherin (B) & N-cadherin (C). Nuclei were counterstained with DAPI (blue). Scale bars, 50 µm. (D) MCF10A cells, treated as described, were analyzed by immunoblotting for KDM6B & vimentin (Vim). COX IV was used as a loading control. (E) MCF10A cells, treated as described, were fixed & immunostained for KDM6A. Nuclei were counterstained with DAPI (blue). Scale bars, 50 µm. (F) Cells were analyzed by immunoblotting for KDM6A, EZH2 & RING1A. β -actin was used as a loading control. Image collected & cropped by CiteAb from the following publication

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Publications

Nanduri J, Wang N, Wang BI, Prabhakar Nr Lysine demethylase KDM6B regulates HIF-1 alpha mediated systemic and cellular responses to intermittent hypoxia Physiological genomics 2021-07-23 [PMID: 34297635]

Colin T. Maguire, Bradley L. Demarest, Jonathon T. Hill, James D. Palmer, Arthur R. Brothman, H. Joseph Yost, Maureen L. Condic, Li Chen Genome-Wide Analysis Reveals the Unique Stem Cell Identity of Human Amniocytes PLoS ONE 2013-01-10 [PMID: 23326421]

Zhang W, Fu Z, Yin H et al. Macrophage Polarization Modulated by Porcine Circovirus Type 2 Facilitates Bacterial Coinfection Frontiers in Immunology 2021-07-28 [PMID: 34394082] (Western Blot)

Gao Y, Wang N, Jia D H3K27 tri-demethylase JMJD3 inhibits macrophage apoptosis by promoting ADORA2A in lipopolysaccharide-induced acute lung injury Cell death discovery 2022-12-01 [PMID: 36456564] (WB, IHC-P, Mouse)

Gao Y, Wang N, Jia D JMJD3 downregulates IL4i1 aggravating lipopolysaccharide-induced acute lung injury via H3K27 and H3K4 demethylation Environmental toxicology 2022-12-20 [PMID: 36537648]

Ming-Chin Lee K, Achuthan AA, De Souza DP et al. Type I interferon antagonism of the JMJD3-IRF4 pathway modulates macrophage activation and polarization Cell reports 2022-04-19 [PMID: 35443173] (WB)

Wang W, Cho H, Lee JW, Lee SK The histone demethylase Kdm6b regulates subtype diversification of mouse spinal motor neurons during development Nature communications 2022-02-17 [PMID: 35177643] (IF/IHC, Mouse)

Wu Q, Shichino Y, Abe T et al. Selective translation of epigenetic modifiers affects the temporal pattern and differentiation of neural stem cells Nature communications 2022-01-25 [PMID: 35078993] (WB, Mouse)

Lu H, Xie Y, Tran L et al. Chemotherapy-induced S100A10 recruits KDM6A to facilitate OCT4-mediated breast cancer stemness J Clin Invest. 2020-05-19 [PMID: 32427586] (WB, Human)

Huang M, Wang Q, Long F et al. Jmjd3 regulates inflammasome activation and aggravates DSS-induced colitis in mice FASEB J. 2020-01-23 [PMID: 31971317] (WB, ICC/IF, Mouse)

Luo X, Yang D, Wu W et al. Critical role of histone demethylase JMJD3 in the regulation of neointima formation following vascular injury. Cardiovasc. Res. 2018-07-04 [PMID: 29982434]

Liu S, Wang X, Pan L, Wu W et al. Endogenous hydrogen sulfide regulates histone demethylase JMJD3-mediated inflammatory response in LPS-stimulated macrophages and in a mouse model of LPS-induced septic shock Biochem. Pharmacol. 2017-10-23 [PMID: 29074105] (WB, Mouse)

More publications at http://www.novusbio.com/NBP1-06640





Novus Biologicals USA

10730 E. Briarwood Avenue Centennial, CO 80112 USA Phone: 303.730.1950 Toll Free: 1.888.506.6887 Fax: 303.730.1966 nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave Toronto, ON M8Z 4E6 Canada Phone: 905.827.6400 Toll Free: 855.668.8722 Fax: 905.827.6402 canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB, United Kingdom Phone: (44) (0) 1235 529449 Free Phone: 0800 37 34 15 Fax: (44) (0) 1235 533420 info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com Technical Support: nb-technical@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

Products Related to NBP1-06640

| NBP1-42569 | HepG2 Whole Cell Lysate |
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| NBP1-06640PEP | Lysine (K)-specific Demethylase 6B/KDM6B/JMJD3 Antibody Blocking Peptide |
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |

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