

Product Datasheet

Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Antibody - BSA Free NB100-97821

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB100-97821

Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

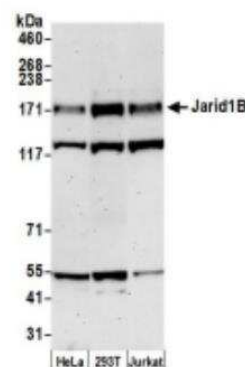
Product Description	
Host	Rabbit
Gene ID	10765
Gene Symbol	KDM5B
Species	Human
Immunogen	The immunogen recognized by this antibody maps to a region between residue 1494 and 1544 of human Jumonji, AT rich interactive domain 1B (NP_006609.3).

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000-1:10000, Flow Cytometry, Immunohistochemistry 1:500-1:2000, Immunoprecipitation 2-10 ug/mg lysate, Immunohistochemistry-Paraffin 1:500-1:2000
Application Notes	Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections. Flow reactivity reported in (PMID: 30721788). Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B antibody validated for IHC-P from a verified customer review.

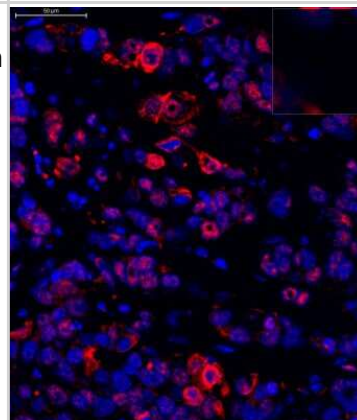


Images

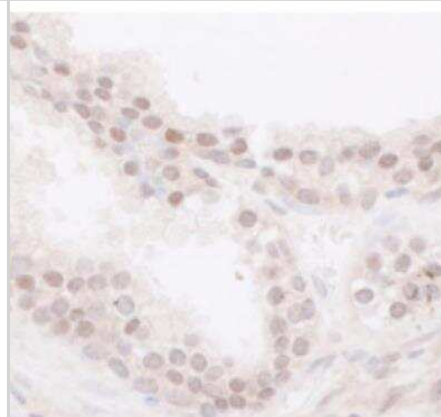
Western Blot: Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Antibody [NB100-97821] - Whole cell lysate (50 ug) from HeLa, 293T, and Jurkat cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-JARID1B antibody used for WB at 0.4 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



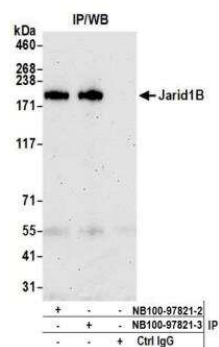
Immunohistochemistry-Paraffin: Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Antibody [NB100-97821] - MCF-7 cells stained with Lysine (K)-specific Demethylase 5B antibody. Image from verified customer review.



Immunohistochemistry-Paraffin: Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Antibody [NB100-97821] - Section of human prostate carcinoma. Antibody: Rabbit anti-JARID1B antibody used at 1:500 (2ug/ml). Secondary: HRP-conjugated goat anti-rabbit IgG (A120-501P). Substrate: DAB.



Immunoprecipitation: Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Antibody [NB100-97821] - Detection of human JARID1B by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from 293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-JARID1B antibody NB100-97821 (lot NB100-97821-3) used for IP at 6 ug per reaction. JARID1B was also immunoprecipitated by a previous lot of this antibody (lot NB100-97821-2). For blotting immunoprecipitated Jarid1B, NB100-97821 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 75 seconds.



Publications

Xu M, Moresco JJ, Chang M et al. SHMT2 and the BRCC36/BRISC deubiquitinase regulate HIV-1 Tat K63-ubiquitylation and destruction by autophagy PLoS Pathog. 2018-05-23 [PMID: 29791506]

Coste Pradas J, Auguste G, Matkovich SJ et Al. Identification of Genes and Pathways Regulated by Lamin A in Heart J Am Heart Assoc 2020-08-01 [PMID: 32805188]

Ullrich V, Ertmer S, Baginska A et Al. KDM5B predicts temozolomide-resistant subclones in glioblastoma iScience 2023-12-03 [PMID: 38174322]

Smith T, White T, Chen Z, Stewart LV. The KDM5 inhibitor PBIT reduces proliferation of castration-resistant prostate cancer cells via cell cycle arrest and the induction of senescence. Experimental cell research 2024-04-08 [PMID: 38462208]

Nabanita Mukherjee, Steven N. Reuland, Yan Lu, Yuchun Luo, Karoline Lambert, Mayumi Fujita, William A Robinson, Steven E Robinson, David A. Norris, Yiqun G. Shellman Combining a BCL2 Inhibitor with the Retinoid Derivative Fenretinide Targets Melanoma Cells Including Melanoma Initiating Cells The Journal of investigative dermatology 2014-10-26 [PMID: 25350317]

Li G, Kanagasabai T, Lu W et al. KDM5B Is Essential for the Hyperactivation of PI3K/AKT Signaling in Prostate Tumorigenesis Cancer Research 2020-11-01 [PMID: 32868382]

Chauvistré H, Shannan B, Daignault-Mill SM et al. Persister state-directed transitioning and vulnerability in melanoma Nature communications 2022-06-01 [PMID: 35650266] (WB, ICC/IF, FLOW, Human)

Zhang SM, Cai WL, Liu X Et al. KDM5B promotes immune evasion by recruiting SETDB1 to silence retroelements Nature 2021-10-01 [PMID: 34671158] (Chemotaxis)

Zhang S, Cai W, Liu X et al. Ablation of Histone Demethylase KDM5B in Melanoma Augments Anti-Tumor Immunity through Upregulation of Retroelements Research Square 2020-11-06 (IP, Chemotaxis)

Chauvistre H, Daignault SM, Shannan B, Ju RJ The Janus-faced role of KDM5B heterogeneity in melanoma: differentiation as a situational driver of both growth arrest and drug-resistance bioRxiv 2020-01-01 (ICC/IF, Human)

Webster MR, Fane ME, Alicea GM Paradoxical Role for Wild-Type p53 in Driving Therapy Resistance in Melanoma Mol. Cell 2019-12-11 [PMID: 31836388]

Vogel FCE, Bordag N, Zugner E et al. Targeting the H3K4 demethylase KDM5B reprograms the metabolome and phenotype of melanoma cells J. Invest. Dermatol. 2019-06-20 [PMID: 31229500]

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Products Related to NB100-97821

NBL1-12099	Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Overexpression Lysate
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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