

Product Datasheet

Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Antibody - BSA Free NBP1-84352

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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NBP1-84352

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

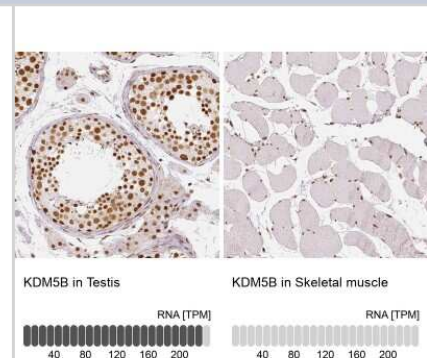
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	10765
Gene Symbol	KDM5B
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 24802759).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: DGINSLERKLRRLEREGLSSERWERVKKMRTPKKKKIKLSHPKDMNNFKLER ERSYELVRS AETHSLPSDTSYSEQEDSE

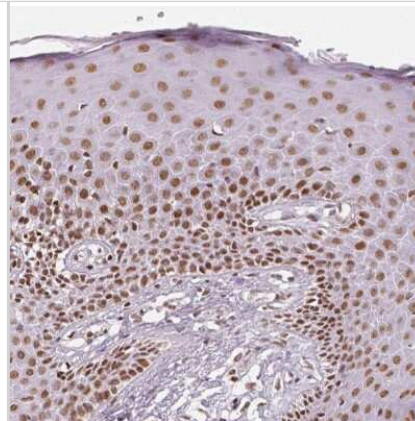
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot Reported in scientific literature (PMID: 25190814) , Immunohistochemistry 1:1000 - 1:2500, Immunoprecipitation Reported in scientific literature (PMID: 25190814) , Immunohistochemistry-Paraffin 1:1000 - 1:2500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

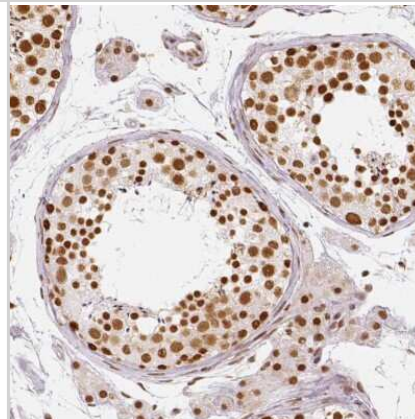
Immunohistochemistry-Paraffin: Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Antibody [NBP1-84352] - Staining in human testis and skeletal muscle tissues . Corresponding KDM5B RNA-seq data are presented for the same tissues.



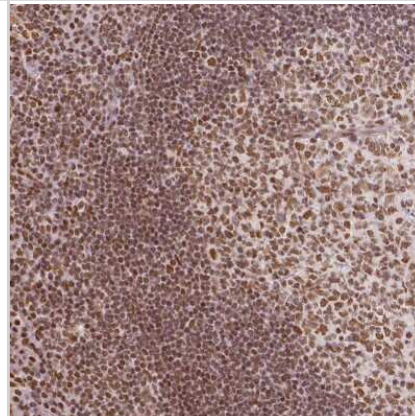
Immunohistochemistry-Paraffin: Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Antibody [NBP1-84352] - Immunohistochemical staining of human skin shows moderate to strong nuclear positivity in epidermal cells.



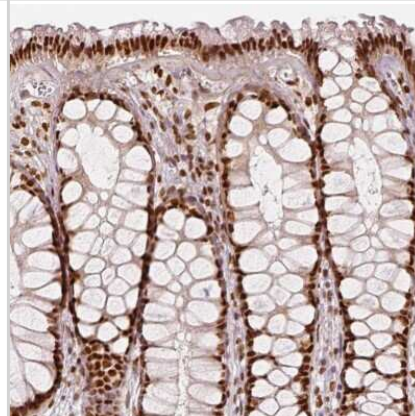
Immunohistochemistry-Paraffin: Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Antibody [NBP1-84352] - Immunohistochemical staining of human testis shows moderate to strong nuclear positivity in cells in seminiferous ducts and Leydig cells.



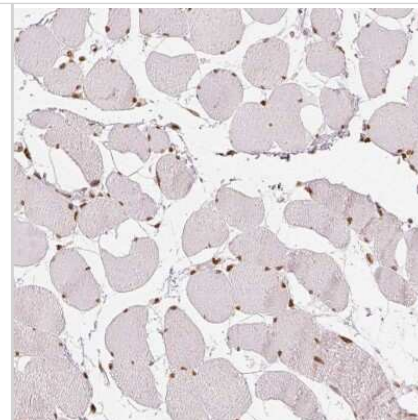
Immunohistochemistry-Paraffin: Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Antibody [NBP1-84352] - Immunohistochemical staining of human tonsil shows moderate to strong nuclear positivity in lymphoid cells.



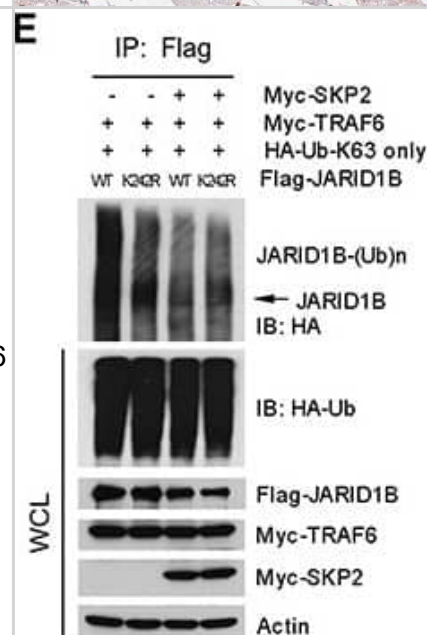
Immunohistochemistry-Paraffin: Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Antibody [NBP1-84352] - Immunohistochemical staining of human rectum shows moderate to strong nuclear positivity in glandular cells.



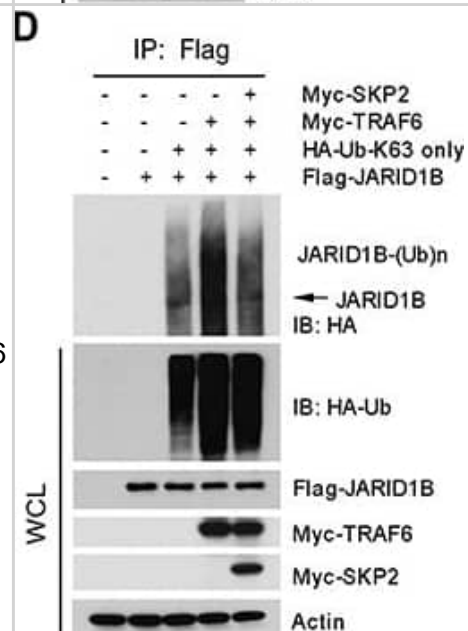
Immunohistochemistry-Paraffin: Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Antibody [NBP1-84352] - Staining of human skeletal muscle shows weak nuclear positivity in myocytes.



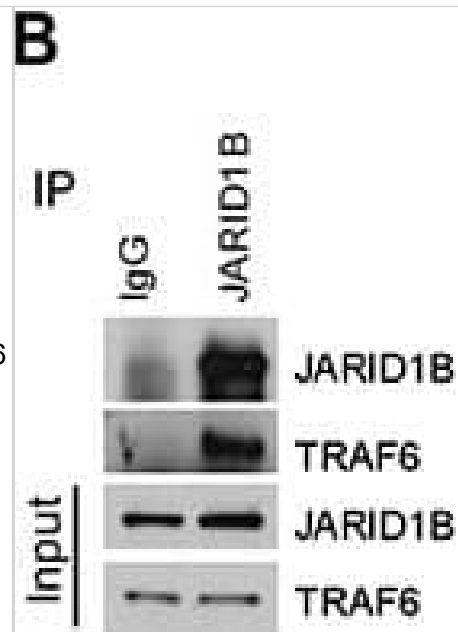
SKP2 regulates the ubiquitination of JARID1B through TRAF6(A) Immunofluorescence images show a co-localization of endogenous JARID1B and TRAF6 in PC3 cells. Scale bars represent 10 μ m. (B) and (C) Co-immunoprecipitation analysis shows that endogenous TRAF6 physically interacts with JARID1B in PC3 cells, as shown by reciprocal co-immunoprecipitation between the two proteins (Also see Supplementary Figure S5). (D) In vivo ubiquitination assay shows that TRAF6 increases K63-linked ubiquitination of JARID1B and SKP2 inhibits TRAF6-mediated JARID1B ubiquitination. Cells were transfected with Flag-JARID1B, HA-Ub-K63-only, Myc-TRAF6 and Myc-SKP2 constructs as indicated. WCL indicates the whole cell lysates. (E) TRAF6 mediates JARID1B ubiquitination through lysine residue 242. HEK293T cells were transfected with Flag-JARID1B WT or Flag-JARID1B-K242R, HA-Ub-K63-only, Myc-TRAF6 and Myc-SKP2 plasmids as indicated. In vivo ubiquitination assay was performed in a standard procedure. WCL indicates the whole cell lysates. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/25596733>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



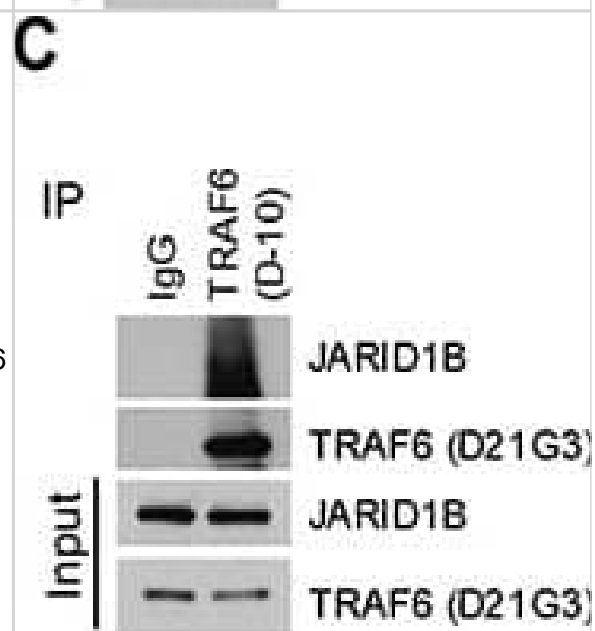
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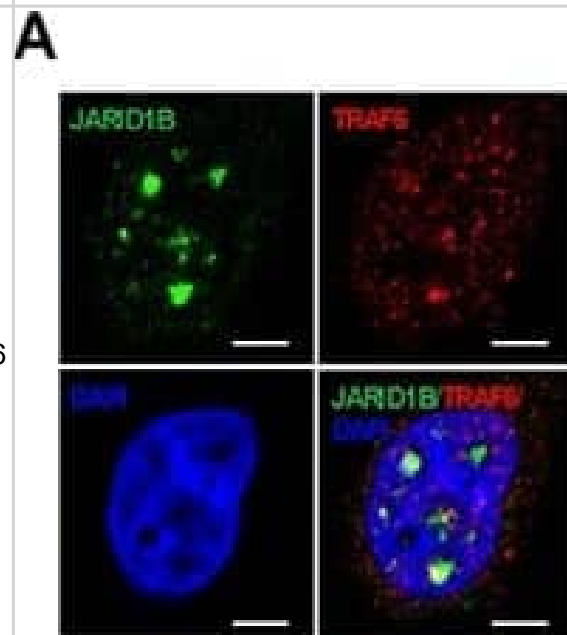
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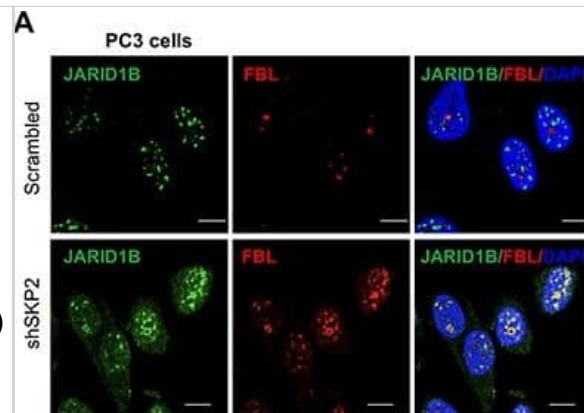
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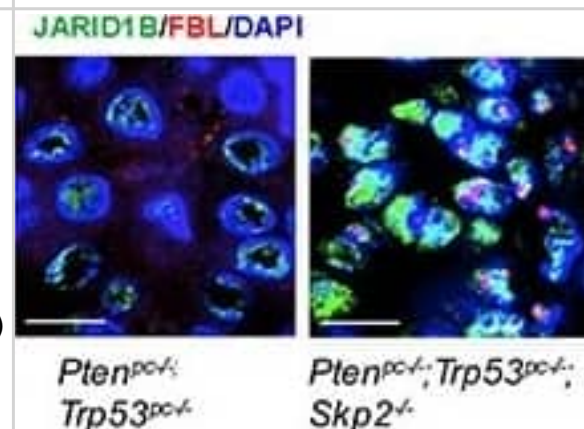
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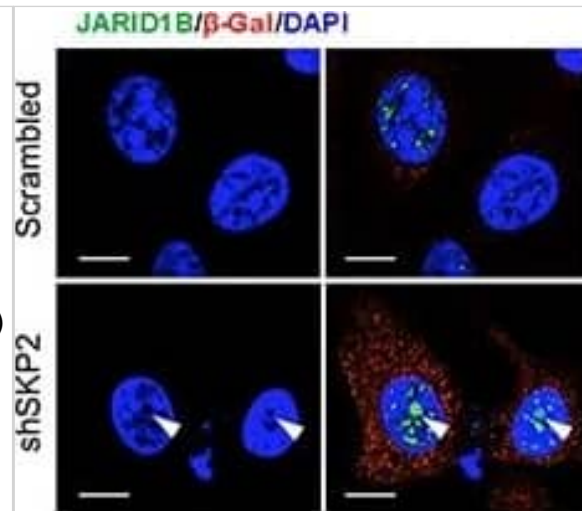
SKP2 inactivation induces an accumulation of ubiquitinated JARID1B in nucleolus of cells in vitro and in vivo for cellular senescence(A) Immunofluorescence (IF) images show a co-localization of endogenous JARID1B and Fibrillarlin (FBL) in nucleoli of PC3 cells upon SKP2 knockdown (Also see Supplementary Figure S6A). FBL indicates a nucleolar marker. Right panel: quantification of PC3 cells showing an increase of JARID1B localization in nucleolus. Error bars represent means +/- SD. (B) IF images show a co-localization of endogenous JARID1B and K63-Ub in nucleoli of PC3 cells upon SKP2 knockdown. (C) Western blotting assay shows an increase of β -galactosidase (β -Gal) in PC3 cells upon SKP2 knockdown. (D) IF images show JARID1B in nucleolus as indicated by arrows and β -Gal in cytoplasm in senescent cells upon SKP2 knockdown. (E) The co-localization of endogenous JARID1B and Fibrillarlin (FBL) in nucleoli of prostate tissues in *Ptenpc-/-;Trp53pc-/-;Skp2-/-* mutant mice (Also see Supplementary Figure S6B). Scale bars represent 10 μ m for panel A, B, D and E. (F) The positive staining of β -galactosidase in prostate tissues of *Ptenpc-/-;Trp53pc-/-;Skp2-/-* mice but not in that of *Ptenpc-/-;Trp53pc-/-* mice. Scale bars represent 50 μ m. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/25596733>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



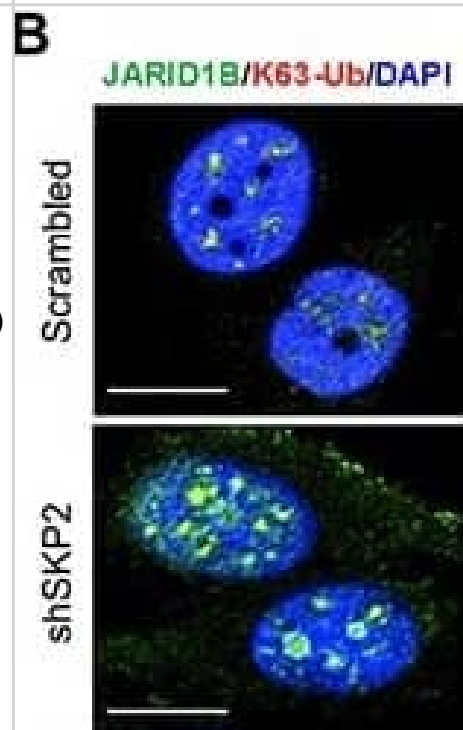
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Publications

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]

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)

Wang L, Mao Y, Du G et al. Overexpression of JARID1B is associated with poor prognosis and chemotherapy resistance in epithelial ovarian cancer. *Tumour Biol* 2015-04-01 [PMID: 25663457] (IF/IHC, Human)

Nishibuchi G, Shibata Y, Hayakawa T et al. Physical and functional interactions between the histone H3K4 demethylase KDM5A and the nucleosome remodeling and deacetylase (NuRD) complex. *J Biol Chem* 2014-09-04 [PMID: 25190814] (IP, WB, Human)

Yamamoto S, Wu Z, Russnes HG et al. JARID1B is a luminal lineage-driving oncogene in breast cancer. *Cancer Cell* 2014-06-16 [PMID: 24937458] (IP, IF/IHC, Human)

Zou MR, Cao J, Liu Z et al. Histone Demethylase Jumonji AT-rich Interactive Domain 1B (JARID1B) Controls Mammary Gland Development by Regulating Key Developmental and Lineage Specification Genes. *J Biol Chem* 2014-06-20 [PMID: 24802759] (WB, Mouse)

Klein BJ, Piao L, Xi Y et al. The histone-H3K4-specific demethylase KDM5B binds to its substrate and product through distinct PHD fingers. *Cell Rep* 2014-01-30 [PMID: 24412361]

Wouters J, Stas M, Gremeaux L et al. The Human Melanoma Side Population Displays Molecular and Functional Characteristics of Enriched Chemoresistance and Tumorigenesis. *PLoS One* 2013-01-01 [PMID: 24098529]

Lu W, Liu S, Li B et al. SKP2 inactivation suppresses prostate tumorigenesis by mediating JARID1B ubiquitination. *Oncotarget* 2015-01-20 [PMID: 25596733] (WB)

Hayami S, Yoshimatsu M, Veerakumarasivam A et al. Overexpression of the JmjC histone demethylase KDM5B in human carcinogenesis: involvement in the proliferation of cancer cells through the E2F/RB pathway. *Mol Cancer*. 2010-05-13 [PMID: 20226085]





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NBP1-84352PEP	Lysine (K)-specific Demethylase 5B/KDM5B/JARID1B Recombinant Protein Antigen
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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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