Product Datasheet

Jumonji/JARID2 Antibody
NB100-2214

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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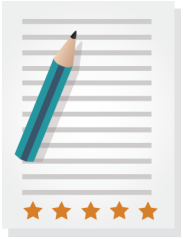
Updated 12/20/2023 v.20.1



NB100-2214

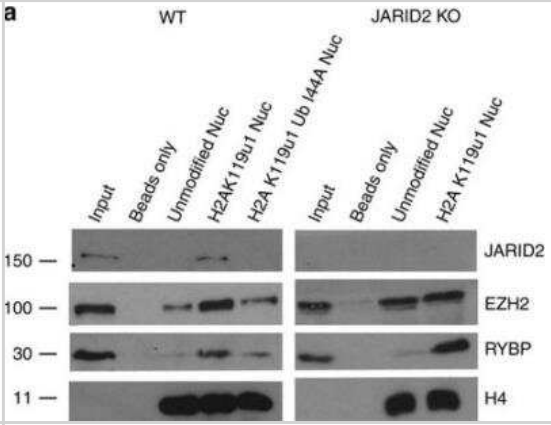
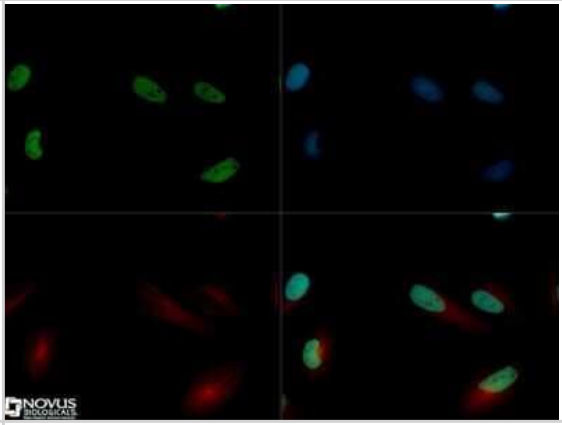
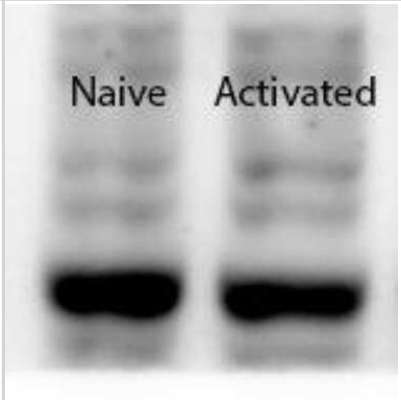
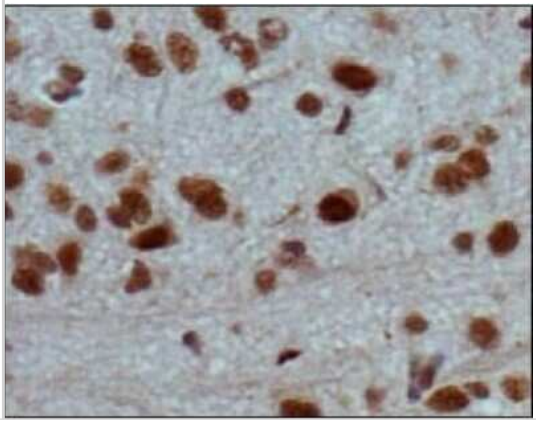
Jumonji/JARID2 Antibody

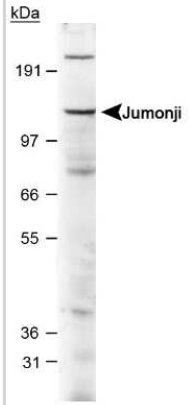
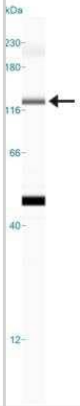
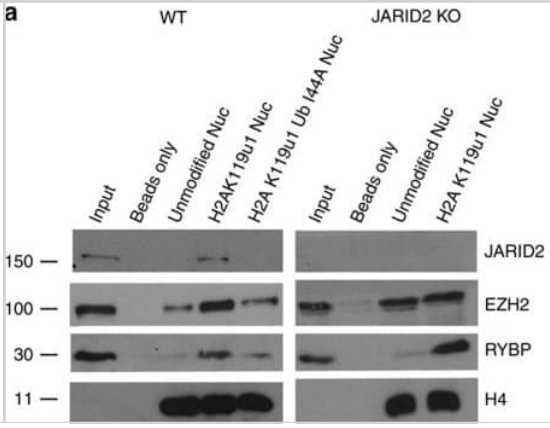
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Glycine and 0.15M NaCl

Product Description	
Host	Rabbit
Gene ID	3720
Gene Symbol	JARID2
Species	Human, Mouse, Rabbit
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 24074864)
Immunogen	A synthetic peptide made to an N-terminal portion of the human JARID2 protein sequence (between residues 1-100). [UniProt# Q92833]

Product Application Details	
Applications	Western Blot, Simple Western, Chromatin Immunoprecipitation, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Knockout Validated
Recommended Dilutions	Western Blot 1:500, Simple Western 1:10, Chromatin Immunoprecipitation 1:10-1:500. Use reported in scientific literature (PMID 22396653), Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:1000, Immunoprecipitation 1:10-1:500. Use reported in scientific literature, Immunohistochemistry-Paraffin 1:200, Chromatin Immunoprecipitation (ChIP) 1:10-1:500, Knockout Validated
Application Notes	By Western blot a band is seen at ~140 kDa. Another band is seen >200 kDa and a faint band may be seen ~80 kDa. In ICC/IF, nuclear staining was observed in HeLa cells. In IHC-P, staining was observed in the nucleus of mouse brain. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

Knockout Validated: Jumonji/JARID2 Antibody [NB100-2214] - Jumonji/JARID2 N-terminus mediates direct interaction with H2AK119u1-modified nucleosomes. Immunoblot of nucleosomal pull downs from nuclear extract. Total nuclear extract (input) and pull down using streptavidin beads, unmodified nucleosomes or nucleosomes modified by H2AK119u1/H2AK119u1(I44A) were probed with the indicated antibodies using extracts from WT cells (left) or Jumonji/JARID2 KO mESCs (right). Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/ncomms13661) licensed under a CC-BY license.	
Immunocytochemistry/Immunofluorescence: Jumonji/JARID2 Antibody [NB100-2214] - JARID2 antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).	
Western Blot: Jumonji/JARID2 Antibody [NB100-2214] - Jarid2 expression in naive and activated (overnight) murine B cells. This image was submitted via customer Review.	
Immunohistochemistry-Paraffin: Jumonji/JARID2 Antibody [NB100-2214] - Tested in mouse brain using DAB with hematoxylin counterstain.	

Western Blot: Jumonji/JARID2 Antibody [NB100-2214] - Detection of JARID2 protein in E16 mouse brain lysate using 2ug/ml of NB100-2214.	
Simple Western: Jumonji/JARID2 Antibody [NB100-2214] - Simple Western lane view shows a specific band for JARID2 in 0.5 mg/ml of Human Brain lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.	
JARID2 N-terminus mediates direct interaction with H2AK119u1-modified nucleosomes(a) Immunoblot of nucleosomal pull downs from nuclear extract. Total nuclear extract (input) and pull down using streptavidin beads, unmodified nucleosomes or nucleosomes modified by H2AK119u1/H2AK119u1(I44A) were probed with the indicated antibodies using extracts from WT cells (left) or JARID2 KO mESCs (right). Full blots are shown in Supplementary Fig. 9. Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/27892467), licensed under a CC-BY licence.	

Publications

Liu W, Zeng Y, Hao X et al. JARID2 coordinates with the NuRD complex to facilitate breast tumorigenesis through response to adipocyte-derived leptin Cancer communications (London, England) 2023-09-01 [PMID: 37658635] (ICC/IF, IHC-P, WB, ChIP, Human)

Kadomatsu T, Hara C, Kurahashi R et al. ANGPTL2-mediated epigenetic repression of MHC-I in tumor cells accelerates tumor immune evasion Molecular oncology 2023-07-15 [PMID: 37452654] (IHC-Fr, Mouse)

Hickey GJ, Wike CL, Nie X et al. Establishment of developmental gene silencing by ordered polycomb complex recruitment in early zebrafish embryos eLife 2022-01-04 [PMID: 34982026]

Sun Z, Tang Y, Zhang Y Et al. Joint single-cell multiomic analysis in Wnt3a induced asymmetric stem cell division Nature communications 2021-10-12 [PMID: 34642323] (WB, Mouse)

Jain P, Ballare C, Blanco E et Al. PHF19 mediated regulation of proliferation and invasiveness in prostate cancer cells Elife 2020-03-10 [PMID: 32155117] (WB, Human)

Yen YP, Hsieh WF, Tsai YY et al. Dlk1-Dio3 locus-derived lncRNAs perpetuate postmitotic motor neuron cell fate and subtype identity Elife. 2018-10-11 [PMID: 30311912] (WB, IP, Mouse)

Kumar R, Evans T Activation-Induced Cytidine Deaminase Regulates Fibroblast Growth Factor/Extracellular Signal-Regulated Kinases Signaling To Achieve the Naive Pluripotent State During Reprogramming Stem Cells 2019-04-25 [PMID: 31021461] (WB, Mouse)

Perino M, van Mierlo G, Karemaker ID et al. MTF2 recruits Polycomb Repressive Complex 2 by helical-shape-selective DNA binding Nat. Genet. 2018-05-28 [PMID: 29808031] (Chemotaxis)

Schneider E, Staffas A, Rohner L et al. MicroRNA-155 is a direct target of Meis1, but not a driver in acute myeloid leukemia. Haematologica 2017-12-07 [PMID: 29217774] (WB)

Basu M, Zhu JY, LaHaye S et al. Epigenetic mechanisms underlying maternal diabetes-associated risk of congenital heart disease. JCI Insight. 2017-10-19 [PMID: 29046480] (IHC-P, ICC/IF, WB, Chemotaxis, Mouse)

Qu Y, Yang Q, Liu J et al. c-Myc is Required for BRAF(V600E)-Induced Epigenetic Silencing by H3K27me3 in Tumorigenesis. Theranostics. 2017-06-28 [PMID: 28656062] (WB, Human)

Jin HY, Oda H, Chen P et al. Differential Sensitivity of Target Genes to Translational Repression by miR-17-92. PLoS Genet. [PMID: 28241004] (WB, Mouse)

More publications at http://www.novusbio.com/NB100-2214

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Products Related to NB100-2214

NB100-2214PEP	Jumonji/JARID2 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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