Product Datasheet

Histone H2AX [p Ser139] Antibody NB100-2280

Unit Size: 0.1 ml

Store at 4C. Do not freeze.



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NB100-2280

Histone H2AX [p Ser139] Antibody

Product Information	
Unit Size	0.1 ml
Concentration	0.1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA
Target Molecular Weight	15 kDa
Product Description	
Host	Rabbit
Gene ID	3014
Gene Symbol	H2AX
Species	Human, Mouse, Canine
Reactivity Notes	Based on sequence percent identity: Gorilla (100%), Macaque (100%), Canine reactivity reported in scientific literature (PMID: 26991424).
Marker	DNA Double-strand break marker
Immunogen	This Histone H2AX [p Ser139] Antibody was developed against a synthetic phospho-peptide, which represented a portion of the C-terminus of human histone H2AX surrounding phosphorylated serine 139 (GeneID 3014).
Notes	Licensed to Novus Biologicals LLC under U.S. Patent Nos. 6,362,317 and 6,884,873.
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry- Paraffin
Recommended Dilutions	Western Blot 1:100-1:2000, Simple Western 1:20, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100 - 1:500, Immunohistochemistry-Paraffin 1:100-1:500, Immunohistochemistry-Frozen
Application Notes	Epitope exposure is recommended. Epitope exposure with citrate buffer will enhance staining. Likely to work with frozen sections. Use in WB reported in scientific literature (PMID 24415760). Use in IHC-Frozen reported in scientific literature (PMID 26577699). 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

Immunohistochemistry: Histone H2AX [p Ser139] Antibody [NB100-2280] G. - Biological and molecular analysis of cutaneous wound healing in p73+/ + and p73-/- mice. Representative micrographs of immunohistochemistry (IHC) staining for Histone H2AX [p Ser139] in skin specimens from p73+/ + and p73-/- mice 10 days after wounding. All scale bars represent 50 um. Regions of the skin are labeled as: IFE, HF, epidermal wound edge (WE), and newly-formed epidermis of the wound (W); and the dotted line indicates the border between the WE and W. *p-value < 0.05, **p-value < 0.01, ***p-value < 0.001. Image collected and cropped by CiteAb from the following publication

(https://dx.plos.org/10.1371/journal.pone.0218458), licensed under a CC-BY license.

Simple Western: Histone H2AX [p Ser139] Antibody [NB100-2280] -Simple Western lane view shows a specific band for Histone H2AX [p Ser139] in 0.2 mg/ml of Jurkat lysate(s). This experiment was performed under reducing conditions using the 12 - 230 kDa separation system.



Immunohistochemistry: Histone H2AX [p Ser139] Antibody [NB100-2280] - Telomere dysfunctional induced foci (TIF) in HBV-related multistep hepatocarcinogenesis and the correlations thereof with stathmin and elongation factor 1alpha (EF1alpha) expression. A. Representative features of colocalization of Histone H2AX [p Ser139] and telomeric DNA in defined lesions of human multistep hepatocarcinogenesis. TIF are indicated by colored arrowheads: blue, DAPI; green, gamma H2AX; red, telomeres; yellow, TIF. Image collected and cropped by CiteAb from the following publication (https://translationalmedicine hismedeentral com/articles/10.1186/1470.5876.12.154)

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Immunohistochemistry-Paraffin: Histone H2AX [p Ser139] Antibody [NB100-2280] - Detection of human Histone H2AX [p Ser139] antibody by immunohistochemistry. Sample: FFPE section of human seminoma. Antibodies: Affinity purified rabbit Histone H2AX [p Ser139] antibody used at a dilution of 1:500. Detection: DAB.







Immunohistochemistry: Histone H2AX [p Ser139] Antibody [NB100-2280] - Detection of Mouse Histone H2AX [p Ser139] by Immunohistochemistry. Sample: FFPE section of mouse colon carcinoma CT26. Antibodies: Affinity purified rabbit Histone H2AX [p Ser139] antibody. Detection: DAB. Simple Western: Histone H2AX [p Ser139] Antibody [NB100-2280] -Electropherogram image(s) of corresponding Simple Western lane view. Histone H2AX [p Ser139] antibody was used at 1:20 dilution on Jurkat lysate(s). 40 MW (kDa) Telomere dysfunctional induced foci (TIF) in HBV-related multistep hepatocarcinogenesis and the correlations thereof with stathmin and elongation factor 1alpha (EF1alpha) expression. A. Representative features of colocalization of gamma-H2AX and telomeric DNA in defined lesions of human multistep hepatocarcinogenesis. TIF are indicated by colored arrowheads: blue, DAPI; green, gamma-H2AX; red, telomeres; yellow, TIF. Image collected and cropped by CiteAb from the following publication (https://translationalmedicine.biomedcentral.com/articles/10.1186/1479-5876-12-154), licensed under a CC-BY licence. activation. c) Representative IHC staining for phospho-gamman2/V (see a sectivation. c) Representative IHC staining for phospho-gammaH2AX-positive cells as a section of phospho-gammaH2 С Hepatic activation of FOXO3 induces oxidative damage and Akt Control cells and large cells. Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31488102), licensed under a CC-BY licence. FOXO3CAH







Nox4 overexpression accelerated senescence of NP cells. (a, b) RTqPCR analysis (N = 4) and representative immunoblot analysis of p53, p16, p21, and Rb in NP cells overexpressing Nox4. (c) The percentage of SA- β -gal-positive NP cells overexpressing Nox4 (N = 8). (d, e) Immunofluorescence staining of BrdU and percentage of BrdU-positive cells in NP cells overexpressing Nox4 (N = 8). (f, g) RT-qPCR analysis of matrix degradation enzymes and proinflammatory cytokines in NP cells overexpressing Nox4 (N = 4). NP cells were transfected with Nox4 vectors for Nox4 overexpression. \Box , P value < 0.05, error bars represent standard error. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/29147462), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Rodriguez-Berriguete G, Ranzani M, Prevo R et al. Small-Molecule Pol? Inhibitors Provide Safe and Effective Tumor Radiosensitization in Preclinical Models Clinical Cancer Research 2023-04-14 [PMID: 36689546] (ICC/IF)

Ma H, Yang F, York LR et al. Excessive Thyroid Hormone Signaling Induces Photoreceptor Degeneration in Mice eNeuro 2023-08-18 [PMID: 37596046] (ICC/IF, WB)

Marquez-Exposito L, Tejedor-Santamaria L, Santos-Sanchez L et al. Acute Kidney Injury is Aggravated in Aged Mice by the Exacerbation of Proinflammatory Processes Frontiers in Pharmacology 2021-06-22 [PMID: 34239439]

Eleftheriadis T, Pissas G, Golfinopoulos S et al. Routes of Albumin Overload Toxicity in Renal Tubular Epithelial Cells International journal of molecular sciences 2023-06-01 [PMID: 37298591] (WB, IHC-P, Mouse)

Suye S, Yin H, Zhou Z et al. Histological and transcriptomic analysis of Fance-deficient PGCs reveal the possible mechanisms of their depletion Reproduction (Cambridge, England) 2023-07-01 [PMID: 37184052]

Sun M, Wang T, Zhou Y et al. Pulmonary flora-modified diesel particulate matter induced lung injury via cGAS signaling pathway The Science of the total environment 2023-05-29 [PMID: 37257608]

Li X Endoplasmic reticulum stress sensor ATF6 as an immunometabolic modulator in hepatic tumorigenesis Thesis 2023-01-01 (IHC-P, Mouse)

Sperry M, Charrez B, Fotowat H et al. Identification of a pharmaceutical biostasis inducer that slows metabolism in multiple vertebrates that do not hibernate bioRxiv 2023-02-28 (ICC/IF)

Si B, Wang X, Liu Y et al. Multi-locus deletion mutation induced by silver nanoparticles: Role of lysosomal-autophagy dysfunction Ecotoxicology and environmental safety 2023-04-25 [PMID: 37105094] (WB, Human)

Eleftheriadis T, Pissas G, Filippidis G et al. Dapagliflozin Prevents High-Glucose-Induced Cellular Senescence in Renal Tubular Epithelial Cells International journal of molecular sciences 2022-12-17 [PMID: 36555751] (WB, Human)

Details: Dilution used in WB 1:1000

Valentijn F, Knoppert S, Marquez-Exposito L et al. CCN2 aggravates acute DNA damage and the subsequent DDR-Senescence-Fibrosis sequence following renalischemia-reperfusion injury Kidney International 2022-01-01 [PMID: 35921911] (WB, IHC-P, IHC-P, WB, Human, Mouse)

Details: Dilution used 1:1000

Marquez-Exposito L, Tejedor-Santamaria L, Valentijn FA et al. Oxidative Stress and Cellular Senescence Are Involved in the Aging Kidney Antioxidants (Basel, Switzerland) 2022-01-31 [PMID: 35204184] (IHC-P, Mouse)

More publications at http://www.novusbio.com/NB100-2280





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Products Related to NB100-2280

NBL1-11424	Histone H2AX 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

Limitations

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