

Product Datasheet

Histone H3 [Citrulline Arg17, Citrulline Arg2, Citrulline Arg8] Antibody NB100-57135

Unit Size: 0.2 ml

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

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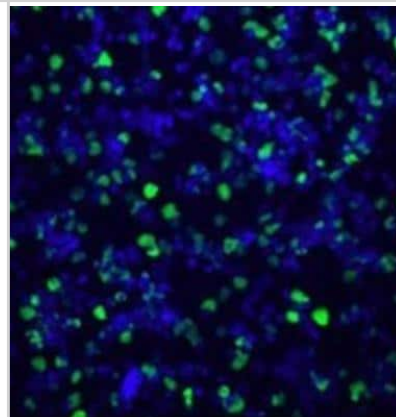


NB100-57135**Histone H3 [Citrulline Arg17, Citrulline Arg2, Citrulline Arg8] Antibody**

Product Information	
Unit Size	0.2 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Lyophilized powder, reconstitute with 0.2 ml distilled water.
Isotype	IgG
Purity	Unpurified
Buffer	Antiserum
Target Molecular Weight	15 kDa
Product Description	
Description	Novus Biologicals Rabbit Histone H3 [Citrulline Arg17, Citrulline Arg2, Citrulline Arg8] Antibody (NB100-57135) is a polyclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF and ChIP. Anti-Histone H3 Antibody: Cited in 19 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Mouse, Rat, Bacteria
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 31160588). Use in Rat reported in scientific literature (PMID:32890741). Bacteria reactivity reported in (PMID: 32329205).
Specificity/Sensitivity	Reacts with human Histone H3 Citrulline at the 3 positions: 2, 8 and 17. Reacts with mono or di H3-Cit. Not tested in other species. May cross reacts with other species due to sequence homology.
Immunogen	This Histone H3 antibody was raised against synthetic peptide derived from N terminal region of Human Histone H3, containing Citrulline at position 2;8;17
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:5000 - 1:50000, Flow Cytometry, ELISA, Immunohistochemistry 1:200 - 1:1000, Immunocytochemistry/ Immunofluorescence 1:200 - 1:1000, Immunohistochemistry-Paraffin 1:200 - 1:1000, Immunohistochemistry-Frozen, Chromatin Immunoprecipitation (ChIP) 1:10-1:500
Application Notes	Use in IHC-Frozen reported in scientific literature (PMID:32890741).

Images

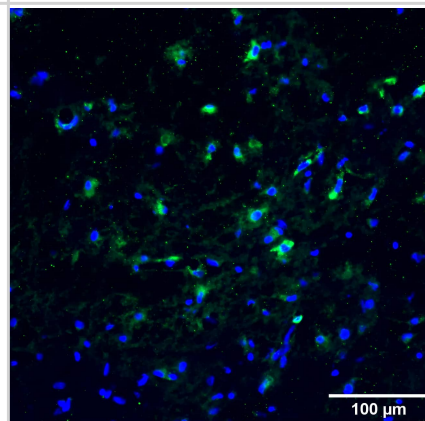
Immunocytochemistry/Immunofluorescence: Histone H3 [Citrulline 2, Citrulline 8, Citrulline 17] Antibody [NB100-57135] - HL60 cells treated with DMSO and Calcein Green: (at 1:1000 Blue Hoechst)



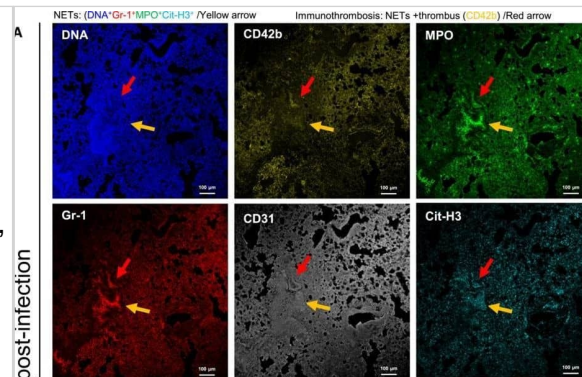
Western Blot: Histone H3 [Citrulline 2, Citrulline 8, Citrulline 17] Antibody [NB100-57135] - Histone H3/Citrulline (R2,R8,R17) at 1:10000 dilution. Observed molecular weight is ~15 kDa.



Immunohistochemistry: Rabbit Polyclonal Histone H3 [Citrulline Arg17, Citrulline Arg2, Citrulline Arg8] Antibody [NB100-57135] - Analysis of Histone H3 on mouse brain tissue. Nucleus (Blue, DAPI) ; H3cit (green). Hemorrhagic stroke model FxFr ; 10 μ m thickness 1:400 Secondary antibody AF488. Image from a verified customer review.



CLEC2.Fc inhibits SARS-CoV-2-induced immunothrombosis in lung AAV-hACE2 mice were treated with saline and challenged with SARS-CoV-2 (8×10^4 PFU) for 5 days. Lung tissue sections were stained with DAPI (blue), anti-MPO antibody (green), anti-citrullinated histone H3 (Cit-H3) antibody (red), anti-CD42b antibody (yellow) and anti-CD31 antibody (gray). yellow arrow: NETs (DNA+Gr-1+MPO+Cit-H3+); red arrow: immunothrombosis (NETs + thrombus (CD42b+)). Scale bar is 100 μ m. B, C For prophylactic treatment, CLEC2.Fc (or vehicle) was given at 1 h before virus challenge; for therapeutic treatment, CLEC2.Fc was given at 8 h post-infection. The area of NET (colocalization area of MPO and Cit-H3) (B) and immunothrombosis (colocalization area of Cit-H3 and CD42b) (C) were measured using MetaMorph software. Data information: Data are mean \pm SEM from two independent experiments (saline: n = 3 for 3 d.p.i., n = 4 for 5 d.p.i.; isotype: n = 3 for 3 d.p.i., n = 4 for 5 d.p.i.; prophylactic treatment of CLEC2.Fc treatment: n = 5 for 3 d.p.i. and 5 d.p.i.; therapeutic treatment of CLEC2.Fc: n = 3 for 3 d.p.i. and 5 d.p.i.). *P < 0.05, **P < 0.01 (two-way ANOVA). Source data are available online for this figure. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37211986>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Liu K, Zhang Y, Du G et al. 5-HT orchestrates histone serotonylation and citrullination to drive neutrophil extracellular traps and liver metastasis *The Journal of clinical investigation* 2025-02-04 [PMID: 39903533]

Yang L, Fang Y, Lian Y et al. Aloe-Emodin Targeting FOXC2 Disrupts NETs Formation and EMT-Driven Postoperative Peritoneal Adhesion Through TGF- β 1-Smad2/3 Pathway. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany) 2025-10-13 [PMID: 41082405]

Jeon, SM;Lee, YJ;Lee, SH;Kim, SI;Lee, B;Roh, T;Kim, YJ;Kim, HJ;Kim, IS;Whang, J;Kim, SY;Jhun, BW;Chung, C;Kang, DH;Yeo, MK;Kim, JM;Jang, J;Min, JJ;Komatsu, M;Kim, JK;Park, WY;Jo, EK; ATG7 in innate immune cells is required for host defense against nontuberculous mycobacterial pulmonary infections *Nature communications* 2025-07-29 [PMID: 40730835]

Liu A, Deng X, Hou S et al. Activated Immune and Complement C3 Are Potential Contributors in MASH via Stimulating Neutrophil Extracellular Traps. *Cells* 2025-05-27 [PMID: 40422243]

Ma T, Tang Y, Wang T et al. Chronic pulmonary bacterial infection facilitates breast cancer lung metastasis by recruiting tumor-promoting MHCII(hi) neutrophils *Signal Transduction and Targeted Therapy* 2023-08-11 [PMID: 37563136]

Nafiz TN, Sankar P, Mishra LK et al. Differential requirement of formyl peptide receptor 1 in macrophages and neutrophils in the host defense against *Mycobacterium tuberculosis* *Infection Scientific Reports* 2024-10-09 [PMID: 39384825]

Zhe Liu, Alexander P.N.A. De Porto, Regina De Beer, Joris J.T.H. Roelofs, Onno J. De Boer, Sandrine Florquin, Cornelis Van't Veer, Rudi W. Hendriks, Tom Van der Poll, Alex F. De Vos Bruton's Tyrosine Kinase in Neutrophils Is Crucial for Host Defense against *Klebsiella pneumoniae* *Journal of Innate Immunity* 2023-01-01 [PMID: 35537415]

Umesh Kumar Dhawan, Purbasha Bhattacharya, Sriram Narayanan, Vijayprakash Manickam, Ayush Aggarwal, Manikandan Subramanian Hypercholesterolemia Impairs Clearance of Neutrophil Extracellular Traps and Promotes Inflammation and Atherosclerotic Plaque Progression *Arteriosclerosis, Thrombosis, and Vascular Biology* 2021-08-05 [PMID: 34348488]

Daniel Dahlberg, Sverre Holm, Ellen Margaret Lund Sagen, Annika Elisabet Michelsen, Maria Stensland, Gustavo Antonio de Souza, Ebba Gløersen Müller, James Patrick Connelly, Mona-Elisabeth Revheim, Bente Halvorsen, Bjørnar Hassel Bacterial Brain Abscesses Expand Despite Effective Antibiotic Treatment: A Process Powered by Osmosis Due to Neutrophil Cell Death. *Neurosurgery* 2023-12-12 [PMID: 38084989]

Sung, PS;Sun, CP;Tao, MH;Hsieh, SL; Inhibition of SARS-CoV-2-mediated thromboinflammation by CLEC2.Fc *EMBO molecular medicine* 2023-05-22 [PMID: 37211986] (Immunohistochemistry-Paraffin, Mouse)

Cha MJ, Ha J, Lee H et al. Neutrophil Recruitment in Arterial Thrombus and Characteristics of Stroke Patients with Neutrophil-Rich Thrombus *Yonsei medical journal* 2022-11-01 [PMID: 36303310] (IHC-P, Mouse)

Details:

Dilution used in IHC 1:50

Chen CJ, Wu CC, Chang CY et al. Metformin Mitigated Obesity-Driven Cancer Aggressiveness in Tumor-Bearing Mice *International journal of molecular sciences* 2022-08-15 [PMID: 36012397] (IHC-P, FLOW, ELISA, Mouse, Human)

Details:

Human samples were used in Flow, Mouse in IHC-P and ELISA

More publications at <http://www.novusbio.com/NB100-57135>



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Products Related to NB100-57135

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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