

Product Datasheet

Histone H3 [ac Lys9] Antibody (PSH04-47) NBP3-32430

Unit Size: 100 ul

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

www.novusbio.com



technical@novusbio.com

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP3-32430

Updated 8/7/2025 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP3-32430



NBP3-32430

Histone H3 [ac Lys9] Antibody (PSH04-47)

Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	PSH04-47
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH7.4), 0.1% BSA and 40% Glycerol
Target Molecular Weight	15 kDa

Product Description	
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Mouse, Rat
Immunogen	Synthetic peptide within human Histone H3 (ac Lys 9) aa 1-50. (Uniprot: P68431)

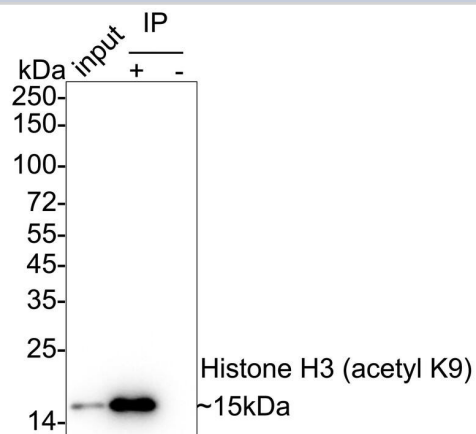
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Chromatin Immunoprecipitation, Dot Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Chromatin Immunoprecipitation Use 0.5-2 ug for 25 ug of chromatin, Flow Cytometry 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:5000-1:15000, Immunohistochemistry-Paraffin 1:1000, Dot Blot 1:1000

Images

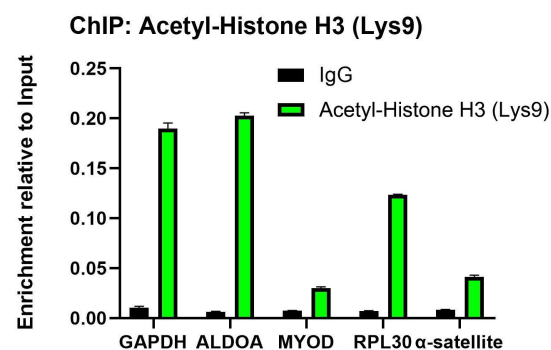
Immunoprecipitation: Histone H3 [ac Lys9] Antibody (PSH04-47) [NBP3-32430] - Histone H3 (acetyl K9) was immunoprecipitated from 0.2 mg HeLa cell lysate with NBP3-32430 at 2 ug/25 ul agarose. Western blot was performed from the immunoprecipitate using NBP3-32430 at 1/2,000 dilution. Anti-Rabbit IgG for IP Nano-secondary antibody at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: HeLa cell lysate (input)
 Lane 2: NBP3-32430 IP in HeLa cell lysate
 Lane 3: Rabbit IgG instead of NBP3-32430 in HeLa cell lysate

Blocking/Dilution buffer: 5% NFDM/TBST
 Exposure time: 18 seconds; ECL



Chromatin Immunoprecipitation: Histone H3 [ac Lys9] Antibody (PSH04-47) [NBP3-32430] - Chromatin immunoprecipitations were performed with cross-linked chromatin from HeLa cells and Histone H3 (NBP3-32430) / Normal Rabbit IgG according to the ChIP protocol. The enriched DNA was quantified by real-time PCR using indicated primers. The amount of immunoprecipitated DNA in each sample is represented as signal relative to the total amount of input chromatin, which is equivalent to one.



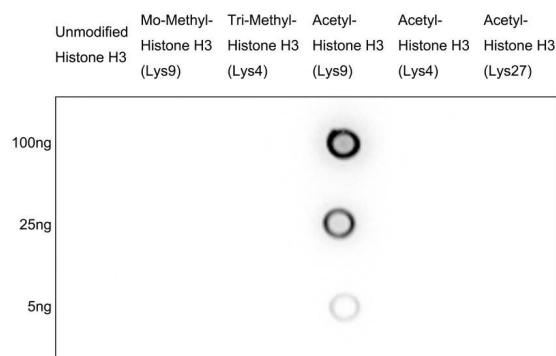
Dot Blot: Histone H3 [ac Lys9] Antibody (PSH04-47) [NBP3-32430] - Dot blot analysis of Histone H3 on different proteins with Rabbit anti-Histone H3 antibody (NBP3-32430) at 1/1,000 dilution. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1/50,000 dilution for 1 hour at room temperature.

Lane 1: Unmodified Histone H3 (negative)
 Lane 2: Mono-Methyl-Histone H3 (Lys9) (negative)
 Lane 3: Tri-Methyl-Histone H3 (Lys9) (negative)
 Lane 4: Acetyl-Histone H3 (Lys9) (positive)
 Lane 5: Acetyl-Histone H3 (Lys4) (negative)
 Lane 6: Acetyl-Histone H3 (Lys27) (negative)

Proteins loading: 100ng, 25ng, 5ng;

Blocking and dilution buffer: 5% NFDM/TBST;

Exposure time: 30 seconds; ECL.



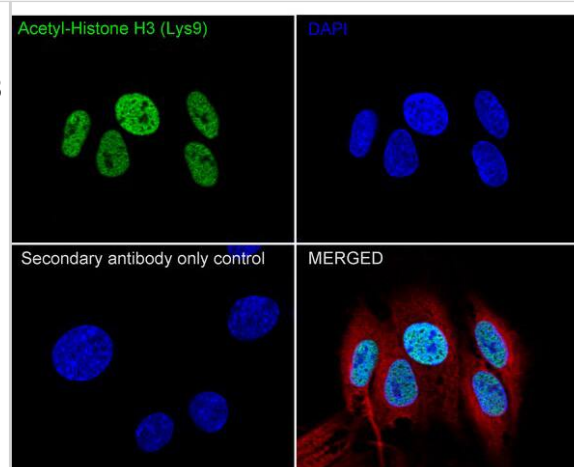
Immunohistochemistry: Histone H3 [ac Lys9] Antibody (PSH04-47) [NBP3-32430] - Immunohistochemical analysis of paraffin-embedded human stomach tissue with Rabbit anti-Histone H3 antibody (NBP3-32430) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody at 1/2,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunocytochemistry/ Immunofluorescence: Histone H3 [ac Lys9] Antibody (PSH04-47) [NBP3-32430] - Immunocytochemistry analysis of C6 cells labeling Histone H3 with Rabbit anti-Histone H3 antibody (NBP3-32430) at 1/10,000 dilution.

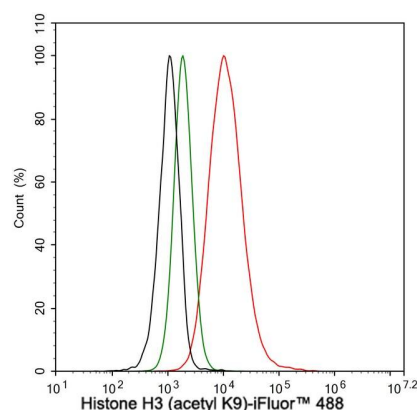
Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Histone H3 antibody at 1/10,000 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.



Beta tubulin (red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594) was used as the secondary antibody at 1/1,000 dilution.

Flow Cytometry: Histone H3 [ac Lys9] Antibody (PSH04-47) [NBP3-32430] - Flow cytometric analysis of HeLa cells labeling Histone H3.

Cells were fixed and permeabilized. Then stained with the primary antibody (NBP3-32430, 1 µg/mL) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes at +4 °C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).



Western Blot: Histone H3 [ac Lys9] Antibody (PSH04-47) [NBP3-32430] - Western blot analysis of Histone H3 on different lysates with Rabbit anti-Histone H3 antibody (NBP3-32430) at 1/1,000 dilution.

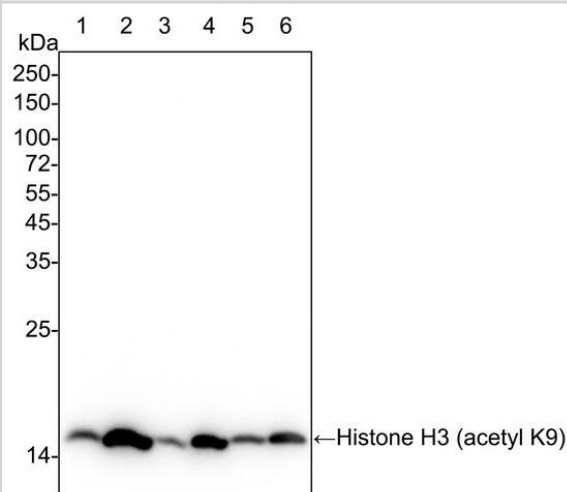
Lane 1: HeLa cell lysate
Lane 2: HeLa treated with 500ng/mL TSA for 4 hours cell lysate
Lane 3: NIH/3T3 cell lysate
Lane 4: NIH/3T3 treated with 400nM TSA for 18 hours cell lysate
Lane 5: C6 cell lysate
Lane 6: C6 treated with 1 µM TSA for 18 hours cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 15 kDa
Observed band size: 15 kDa

Exposure time: 6 seconds; ECL;
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody at 1/1,000 dilution was used in 5% NFDm/TBST at 4 °C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP3-32430

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB21-1142PEP	Histone H3 [Dimethyl Lys18] Antibody Blocking Peptide

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP3-32430

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

