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.

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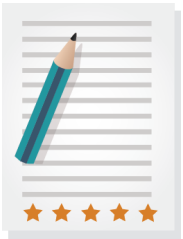


NBP3-32430

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

Description	Novus Biologicals Rabbit Histone H3 [ac Lys9] Antibody (PSH04-47) (NBP3-32430) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
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

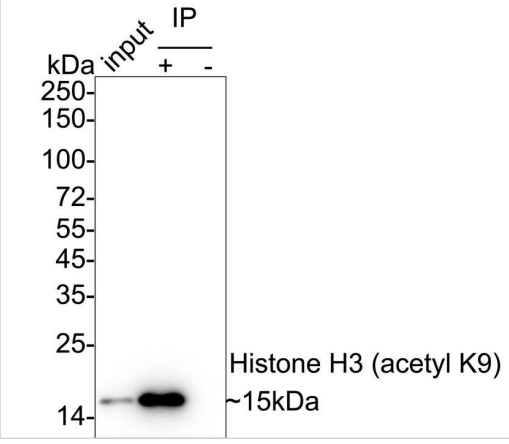
Applications	Western Blot, Immunohistochemistry-Paraffin, Chromatin Immunoprecipitation, Dot Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Chromatin Immunoprecipitation Use 0.5-2 ug for 25 ug of chromatin, Flow Cytometry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

Images

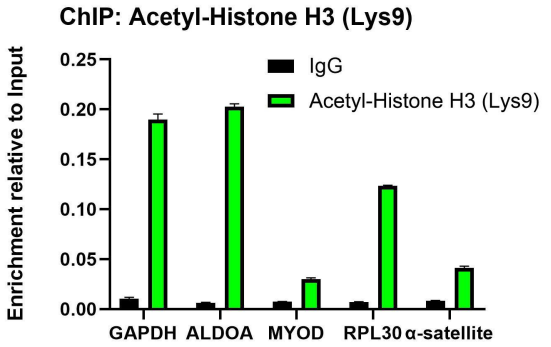
Immunoprecipitation: Histone H3 [ac Lys9] Antibody (PSH04-47) [NBP3-32430] - Histone H3 (acetyl K9) was immunoprecipitated from 0.2 mg HeLa cell lysate with NBP3-32430 at 2 ug/25 ul agarose. Western blot was performed from the immunoprecipitate using NBP3-32430 at 1/2,000 dilution. Anti-Rabbit IgG for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



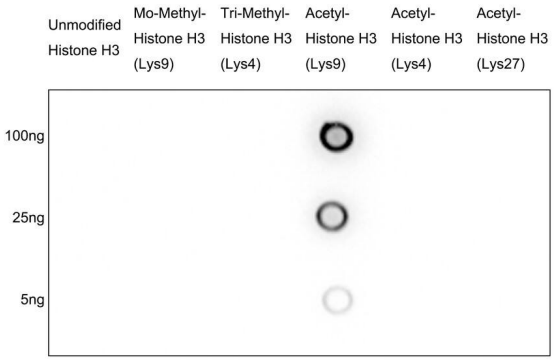
Dot Blot: Histone H3 [ac Lys9] Antibody (PSH04-47) [NBP3-32430] - Dot blot analysis of Histone H3 on different proteins with Rabbit anti-Histone H3 antibody (NBP3-32430) at 1/1,000 dilution. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1/50,000 dilution for 1 hour at room temperature.

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;

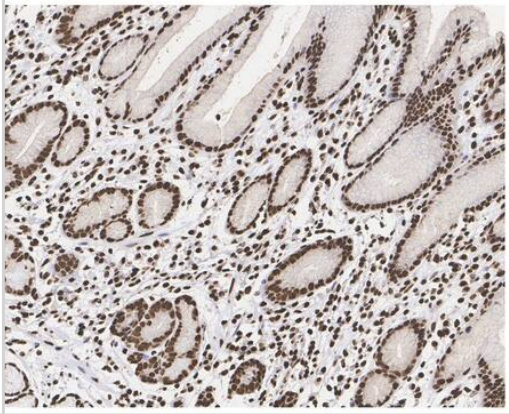
Blocking and dilution buffer: 5% NFDM/TBST;

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.

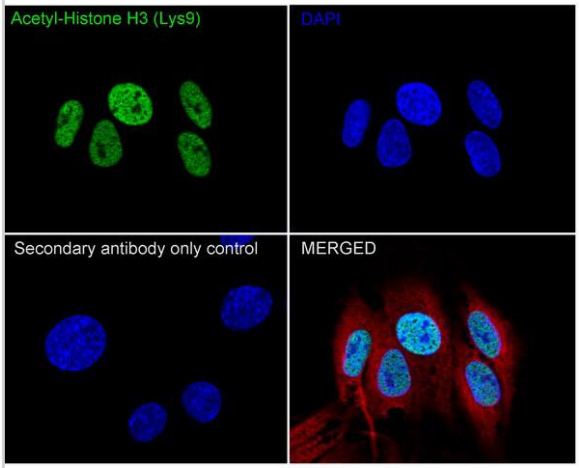
The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody at 1/2,000 dilution for 1 hour at room temperature. 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.

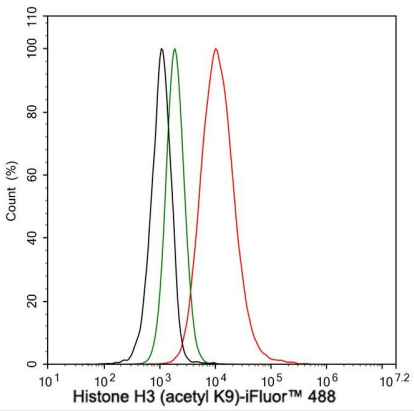
Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Histone H3 antibody at 1/10,000 dilution in 1% BSA in PBST overnight at 4 □. 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□. 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, 1µg/mL) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4□ 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□. 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 1µM 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□ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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NBP2-24891	Rabbit IgG Isotype Control

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