

Product Datasheet

Histone H3 [Dimethyl Lys4] Antibody (JE00-98) NBP3-32431

Unit Size: 100 ul

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

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NBP3-32431

Histone H3 [Dimethyl Lys4] Antibody (JE00-98)

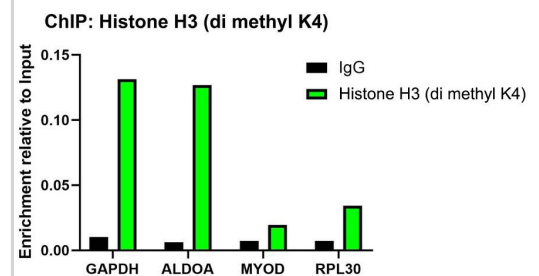
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	JE00-98
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH7.4), 0.1% BSA and 40% Glycerol
Target Molecular Weight	15 kDa

Product Description	
Description	Novus Biologicals Rabbit Histone H3 [Dimethyl Lys4] Antibody (JE00-98) (NBP3-32431) is a recombinant monoclonal antibody validated for use in WB, 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, Monkey
Immunogen	Synthetic peptide corresponding to the amino terminus of histone H3 in which Lys4 is di-methylated. (Uniprot: P68431)

Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, Dot Blot, Immunocytochemistry/Immunofluorescence
Recommended Dilutions	Western Blot 1:1000, Chromatin Immunoprecipitation Use 0.5-2 ug for 25 ug of chromatin, Immunocytochemistry/ Immunofluorescence 1:500-1:2000, Dot Blot 1:1000

Images

Chromatin Immunoprecipitation: Histone H3 [Dimethyl Lys4] Antibody (JE00-98) [NBP3-32431] - Chromatin immunoprecipitations were performed with cross-linked chromatin from HeLa cells and either Histone H3 (NBP3-32431) or 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.



Western Blot: Histone H3 [Dimethyl Lys4] Antibody (JE00-98) [NBP3-32431] - Western blot analysis of Histone H3 on different lysates with Rabbit anti-Histone H3 antibody (NBP3-32431) at 1/1,000 dilution.

Lane 1: HeLa cell lysate
 Lane 2: MCF7 cell lysate
 Lane 3: HCT 116 cell lysate
 Lane 4: COS-1 cell lysate
 Lane 5: NIH/3T3 cell lysate
 Lane 6: C6 cell lysate

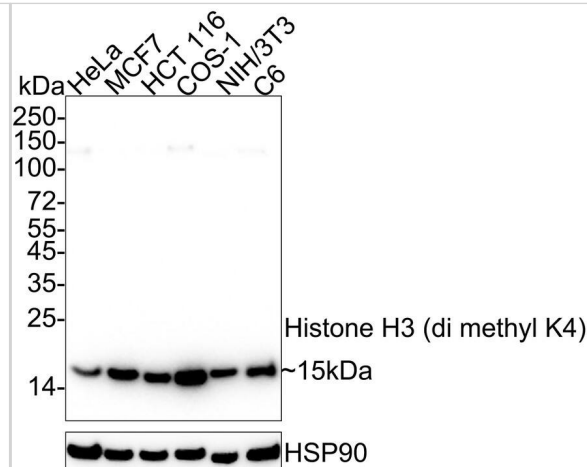
Lysates/proteins at 10 ug/Lane.

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

Exposure time: 14 seconds; ECL;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (NBP3-32431) at 1/1,000 dilution was used in 5% NFDN/TBST at 4 overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.



Dot Blot: Histone H3 [Dimethyl Lys4] Antibody (JE00-98) [NBP3-32431] - Dot blot analysis of Histone H3 on different proteins with Rabbit anti-Histone H3 antibody (NBP3-32431) at 1/1,000 dilution. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1/50,000 dilution for 1 hour at room temperature.

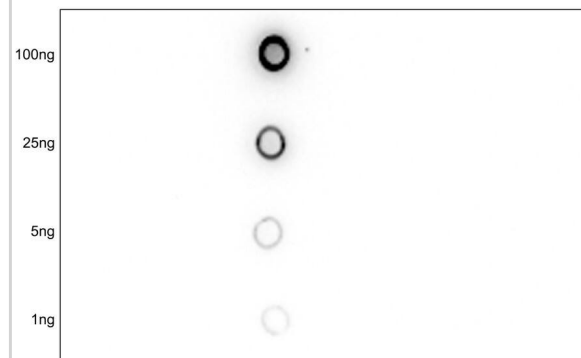
Lane 1: Unmodified Histone H3 (negative)
 Lane 2: Mono-Methyl-Histone H3 (Lys4) (negative)
 Lane 3: Di-Methyl-Histone H3 (Lys4) (positive)
 Lane 4: Tri-Methyl-Histone H3 (Lys4) (negative)
 Lane 5: Acetyl-Histone H3 (Lys4) (negative)
 Lane 6: Acetyl-Histone H3 (Lys9) (negative)

Proteins loading: 100ng, 25ng, 5ng, 1ng;

Blocking and dilution buffer: 5% NFDN/TBST;

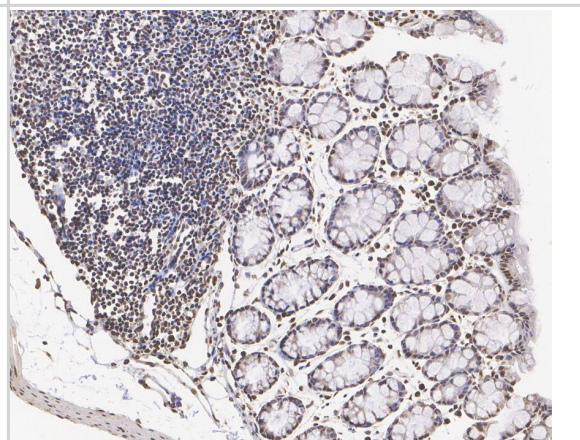
Exposure time: 15 seconds; ECL.

Unmodified Histone H3	Mono-Methyl-Histone H3 (Lys4)	Di-Methyl-Histone H3 (Lys4)	Tri-Methyl-Histone H3 (Lys4)	Acetyl-Histone H3 (Lys4)	Acetyl-Histone H3 (Lys9)
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Immunohistochemistry: Histone H3 [Dimethyl Lys4] Antibody (JE00-98) [NBP3-32431] - Immunohistochemical analysis of paraffin-embedded mouse colon tissue with Rabbit anti-Histone H3 antibody (NBP3-32431) at 1/10,000 dilution.

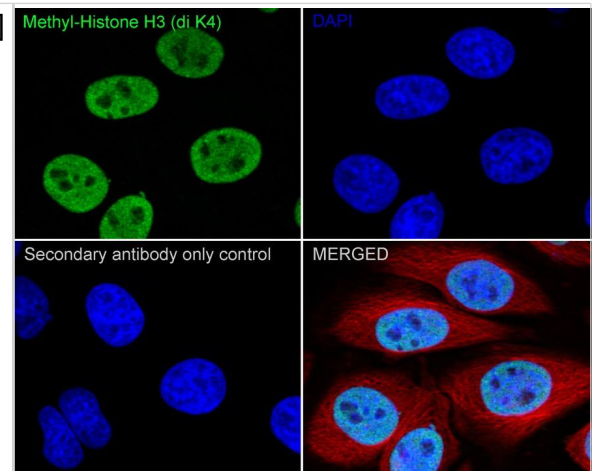
The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (NBP3-32431) at 1/10,000 dilution for 1 hour 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 [Dimethyl Lys4] Antibody (JE00-98) [NBP3-32431] - Immunocytochemistry analysis of HeLa cells labeling Histone H3 with Rabbit anti-Histone H3 antibody (NBP3-32431) at 1/500 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 (NBP3-32431) at 1/500 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.





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Products Related to NBP3-32431

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

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.

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