

# Product Datasheet

## Histone H4 [ac Lys8] Antibody NBP2-42863

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**NBP2-42863**

## Histone H4 [ac Lys8] Antibody

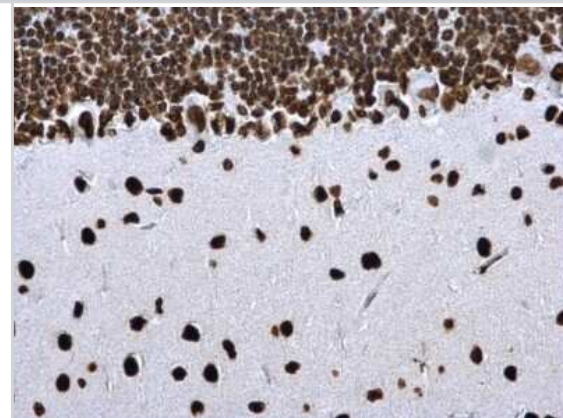
| Product Information |  |
|---------------------|--|
| Unit Size           | 0.1 ml   |
| Concentration       | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| Storage             | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.   |
| Clonality           | Polyclonal   |
| Preservative        | 0.01% Thimerosal   |
| Isotype             | IgG  |
| Purity              | Antigen Affinity-purified  |
| Buffer              | PBS, 1% BSA, 20% Glycerol  |

| Product Description |   |
|---------------------|---|
| Description         | Novus Biologicals Rabbit Histone H4 [ac Lys8] Antibody (NBP2-42863) is a polyclonal antibody validated for use in IHC, WB, ICC/IF, IP and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host                | Rabbit  |
| Gene ID             | 121504  |
| Gene Symbol         | H4C16   |
| Species             | Human, Mouse, Rat   |
| Immunogen           | Carrier-protein conjugated synthetic peptide surrounding acetyl Lys8 of human Histone H4. The exact sequence is proprietary.  |

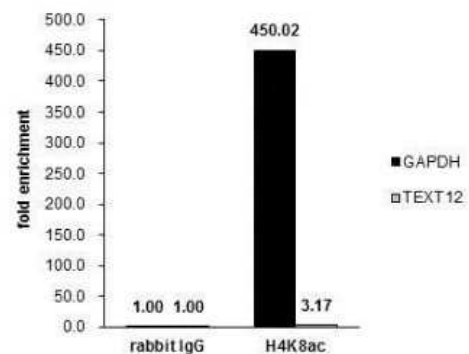
| Product Application Details |  |
|-----------------------------|--|
| Applications                | Western Blot, Immunohistochemistry-Paraffin, Dot Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Immunohistochemistry Free-Floating   |
| Recommended Dilutions       | Western Blot 1:1000-1:10000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:100-1:1000, Immunoprecipitation 1:100-1:5000, Immunohistochemistry-Paraffin 1:100-1:1000, Dot Blot, Immunohistochemistry Free-Floating, Chromatin Immunoprecipitation (ChIP) |

**Images**

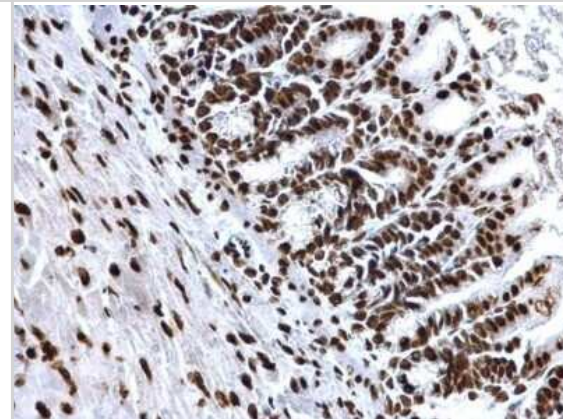
Immunohistochemistry-Paraffin: Histone H4 [ac Lys8] Antibody [NBP2-42863] - Analysis of rat hind brain. Histone H4K8ac (acetyl Lys8) antibody dilution: 1:500.



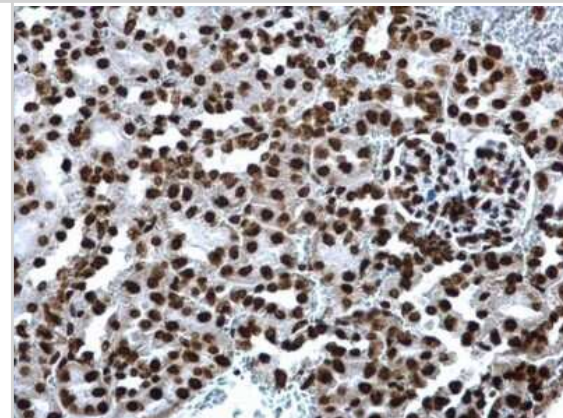
Chromatin Immunoprecipitation: Histone H4 [ac Lys8] Antibody [NBP2-42863] - Cross-linked CHIP was performed with HeLa chromatin extract treated with Trichostatin A (0.4  $\mu$ M for 18 h) and 5  $\mu$ g of either control rabbit IgG or anti-Histone H4K8ac (acetyl Lys8) antibody. The precipitated DNA was detected by PCR with primer set targeting to GAPDH or TEXT12.



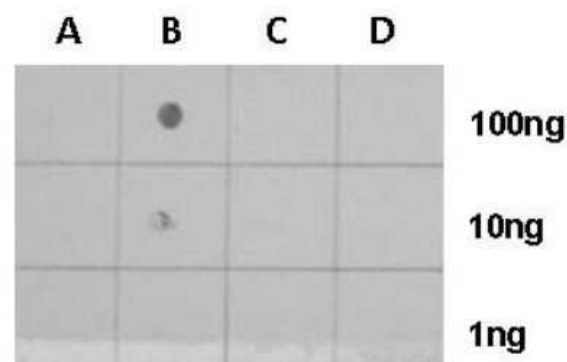
Immunohistochemistry-Paraffin: Histone H4 [ac Lys8] Antibody [NBP2-42863] - Analysis of mouse duodenum. Histone H4K8ac (acetyl Lys8) antibody dilution: 1:500.



Immunohistochemistry-Paraffin: Histone H4 [ac Lys8] Antibody [NBP2-42863] - Analysis of mouse kidney. Histone H4K8ac (acetyl Lys8) antibody dilution: 1:500.



Dot Blot: Histone H4 [ac Lys8] Antibody [NBP2-42863] - Analysis of anti-Histone H4 (acetyl Lys9) antibody with peptide samples. Varied amount of peptide samples were spotted onto positively charged nylon membrane and blotted with Histone H4 (acetyl Lys9) antibody 1:5000 dilution. A: Peptide samples of H4K8 un B: Peptide samples of H4K8ac C: Peptide samples of H4K16un D: Peptide samples of H4K16ac.



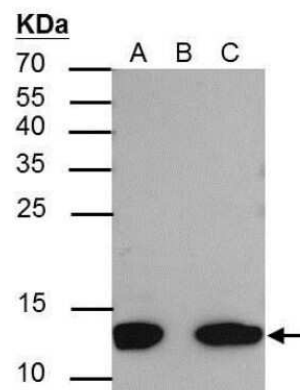
Immunoprecipitation: Histone H4 [ac Lys8] Antibody [NBP2-42863] - Analysis of HeLa whole cell lysate/extract:

A. 30 ug whole cell lysate/extract of Histone H4 (acetyl K9) protein expressing HeLa cells (0.4uM TSA treatment for 18 hrs)

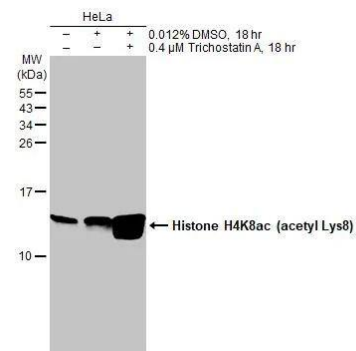
B. Control with 2.5 ug of pre-immune rabbit IgG

C. Immunoprecipitation of Histone H4 (acetyl K9) protein by 2.5 ug of Histone H4 (acetyl K9) antibody . 12% SDS-PAGE The immunoprecipitated Histone H4 (acetyl K9) protein was detected by Histone H4 (acetyl K9).

EasyBlot anti-rabbit IgG (HRP) was used as a secondary reagent.



Untreated (-) and treated (+) HeLa whole cell extracts (30 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with Histone H4K8ac (acetyl Lys8) antibody (NBP2-42863) diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Histone H4 (acetyl Lys8) antibody detects Histone H4 (acetyl Lys8) protein at nucleus by immunofluorescent analysis.

Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min.

Green: Histone H4 (acetyl Lys8) protein stained by Histone H4 (acetyl Lys8) antibody (NBP2-42863) diluted at 1:500.

Red: alpha Tubulin antibody [GT114], a cytoskeleton marker, stained by diluted at 1:500.

Blue: Hoechst 33342 staining.





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### **Products Related to NBP2-42863**

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|             |   |
|-------------|---|
| 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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### **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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