

# Product Datasheet

## Histone H4 [ac Lys8] Antibody (C.15200217) - BSA Free NBP2-59240

Unit Size: 50 ug

Store at -20C. Avoid freeze-thaw cycles.

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**NBP2-59240**

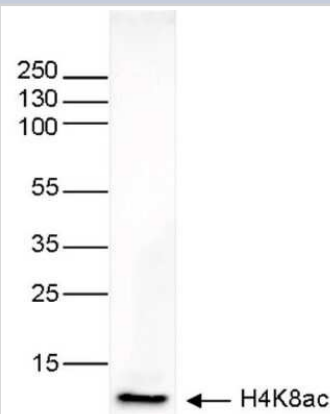
Histone H4 [ac Lys8] Antibody (C.15200217) - BSA Free

| Product Information         |                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit Size                   | 50 ug                                                                                                                                                                                                                     |
| Concentration               | Please see the vial label for concentration. If unlisted please contact technical services.                                                                                                                               |
| Storage                     | Store at -20C. Avoid freeze-thaw cycles.                                                                                                                                                                                  |
| Clonality                   | Monoclonal                                                                                                                                                                                                                |
| Clone                       | C.15200217                                                                                                                                                                                                                |
| Preservative                | 0.05% Sodium Azide                                                                                                                                                                                                        |
| Isotype                     | IgG1                                                                                                                                                                                                                      |
| Purity                      | Protein A purified                                                                                                                                                                                                        |
| Buffer                      | PBS                                                                                                                                                                                                                       |
| Product Description         |                                                                                                                                                                                                                           |
| Description                 | Novus Biologicals Mouse Histone H4 [ac Lys8] Antibody (C.15200217) - BSA Free (NBP2-59240) is a monoclonal antibody validated for use in WB and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host                        | Mouse                                                                                                                                                                                                                     |
| Gene ID                     | 121504                                                                                                                                                                                                                    |
| Gene Symbol                 | H4C16                                                                                                                                                                                                                     |
| Species                     | Human                                                                                                                                                                                                                     |
| Immunogen                   | The exact immunogen is proprietary information.                                                                                                                                                                           |
| Product Application Details |                                                                                                                                                                                                                           |
| Applications                | Western Blot, Dot Blot, Chromatin Immunoprecipitation (ChIP)                                                                                                                                                              |
| Recommended Dilutions       | Western Blot 1:1000, Dot Blot 1:20000, Chromatin Immunoprecipitation (ChIP) 1-2 ug                                                                                                                                        |

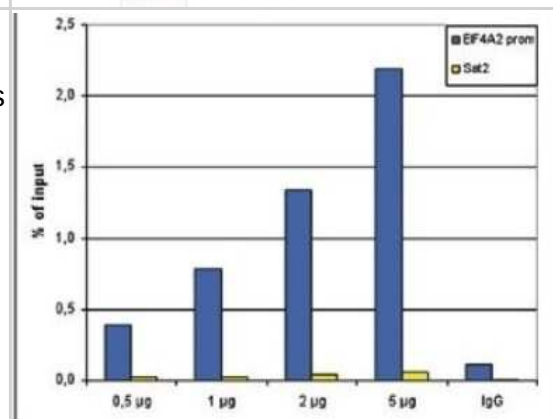


## Images

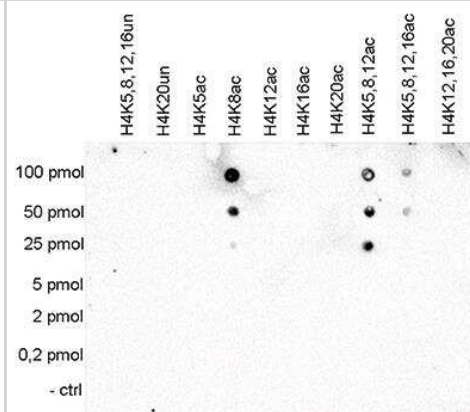
**Western Blot:** Histone H4 [ac Lys8] Antibody (C.15200217) [NBP2-59240] - Histone extracts (15 ug) from HeLa cells were analyzed using the antibody against H4K8ac diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. The position of the protein of interest is indicated on the right; the marker (in kDa) is shown on the left.



**Chromatin Immunoprecipitation:** Histone H4 [ac Lys8] Antibody (C.15200217) [NBP2-59240] - Analysis was performed using HeLa cells, the monoclonal antibody against H4K8ac and optimized PCR primer sets for qPCR. ChIP was performed with a ChIP-seq kit, using sheared chromatin from 1.5 million cells. A titration of the antibody consisting of 0.5, 1, 2 and 5 ug per ChIP experiment was analysed. IgG (1 ug/IP) was used as negative IP control. QPCR was performed with primers for the promoter of the EIF4A2 gene, used as a positive control, and for the Sat2 satellite repeat, used as a negative control. Figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



**Dot Blot:** Histone H4 [ac Lys8] Antibody (C.15200217) [NBP2-59240] - To test the cross reactivity of the antibody against H4K8ac, analysis was performed with peptides containing other acetylations and unmodified sequences of histone H4. 100 to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:20,000. Figure shows a high specificity of the antibody for the modification of interest.





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### **Products Related to NBP2-59240**

|                  |                                                         |
|------------------|---------------------------------------------------------|
| HAF007           | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B          | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-97005-0.5mg | Mouse IgG1 Isotype Control (MG1)                        |
| NB21-2090PEP     | Histone H4 [Trimethyl Lys20] 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.

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