

Product Datasheet

Histone H3 Antibody (C.15200149) NBP2-59283

Unit Size: 50 ug

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

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NBP2-59283

Histone H3 Antibody (C.15200149)

| 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.15200149 |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG2b |
| Purity | Protein A purified |
| Buffer | PBS |
| Target Molecular Weight | 15 kDa |

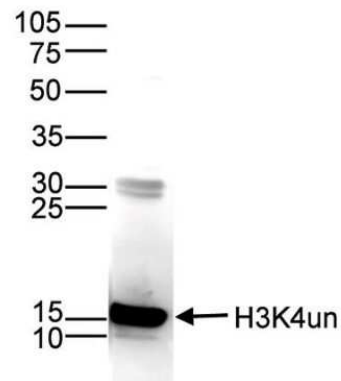
| Product Description | |
|----------------------------|---|
| Host | Mouse |
| Gene ID | 126961 |
| Gene Symbol | H3C14 |
| Species | Human |
| Immunogen | This Histone H3 antibody (C.15200149) was raised against monoclonal antibody raised in mouse against histone H3 using a KLH-conjugated synthetic peptide containing the unmodified lysine 4 (H3K4un). |

| Product Application Details | |
|------------------------------------|---|
| Applications | Western Blot, Chromatin Immunoprecipitation, ELISA, Immunocytochemistry/ Immunofluorescence |
| Recommended Dilutions | Western Blot 1:1000, Chromatin Immunoprecipitation 1 - 5 ug/IP, ELISA 1:5000, Immunocytochemistry/ Immunofluorescence |

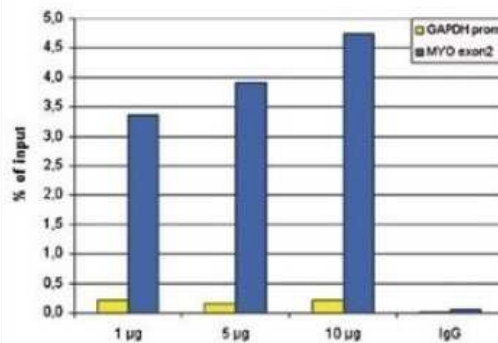


Images

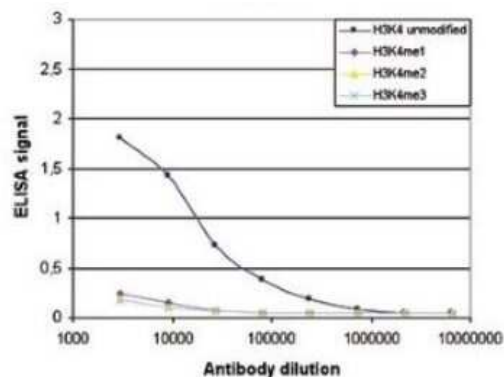
Western Blot: Histone H3 Antibody (C.15200149) [NBP2-59283] - Histone extracts (15 ug) from HeLa cells were analysed by Western blot using the antibody against H3K4un diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~15 kDa.



Chromatin Immunoprecipitation: Histone H3 Antibody (C.15200149) [NBP2-59283] - ChIP assays were performed using HeLa cells, the monoclonal antibody against H3K4un and optimized PCR primer sets for qPCR. Chromatin was sheared with the antibody consisting of 1, 5 and 10 ug per ChIP experiment was analysed. IgG (5 ug/IP) was used as negative IP control. QPCR was performed with primers for the GAPDH promoter and for exon 2 of the myoglobin gene. Figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



ELISA: Histone H3 Antibody (C.15200149) [NBP2-59283] - Cross reactivity of the antibody directed against H3K4un. To test the specificity an ELISA was performed using a serial dilution of the antibody against H3K4un. The wells were coated with peptides containing the unmodified H3K4 region as well as the mono-, di- and trimethylated H3K4. Figure shows a high specificity of the antibody for the unmodified peptide.



Immunofluorescence: Histone H3 Antibody (C.15200149) [NBP2-59283] - HeLa cells were stained with the antibody (left) diluted 1:500 in blocking solution followed by an anti-mouse antibody conjugated to Alexa Fluor 594. The middle panel shows staining of the nuclei with DAPI. A merge of the two stainings is shown on the right.





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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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