

# Product Datasheet

## Histone H4 [Trimethyl Lys20] Antibody - BSA Free NBP2-59259

Unit Size: 50 ug

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

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**NBP2-59259**

Histone H4 [Trimethyl Lys20] Antibody - BSA Free

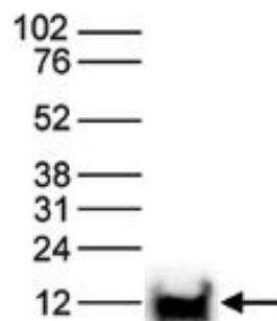
Product Information	
Unit Size	50 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide and 0.05% ProClin 300
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit Histone H4 [Trimethyl Lys20] Antibody - BSA Free (NBP2-59259) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	121504
Gene Symbol	H4C16
Species	Human, Mouse
Immunogen	The exact immunogen is proprietary information.

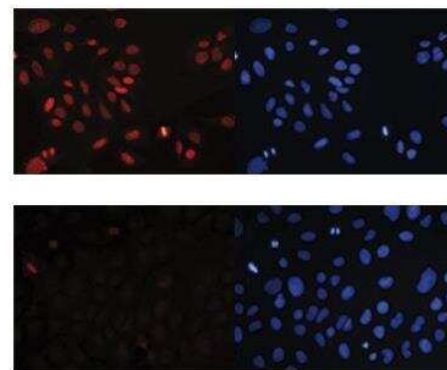
Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:750, ELISA 1:50, Immunocytochemistry/ Immunofluorescence, Dot Blot 1:1000, Chromatin Immunoprecipitation (ChIP) 1:100, Chromatin Immunoprecipitation Sequencing

**Images**

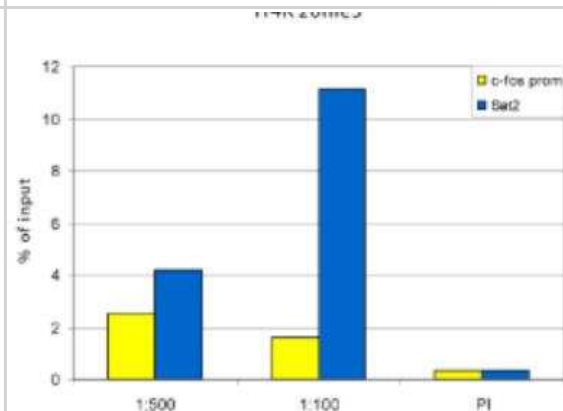
Western Blot: Histone H4 [Trimethyl Lys20] Antibody [NBP2-59259] - Histone extracts of HeLa cells (15 ug) were analysed by Western blot using Histone H4 [Trimethyl Lys20] Antibody diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. The position of the protein of interest is indicated on the right; the marker (in kDa) is shown on the left.



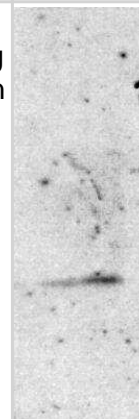
Immunocytochemistry/Immunofluorescence: Histone H4 [Trimethyl Lys20] Antibody [NBP2-59259] - (Top): Human osteosarcoma (U2OS) cells were stained with and DAPI. Cells were fixed with ice cold methanol for 10' and blocked with PBS/TX-100 containing 5% normal goat serum. Figure 6A: cells were immunofluorescently labeled with (left) diluted 1:300 in blocking solution followed by an anti-rabbit antibody conjugated to Alexa568 or with DAPI (right), which specifically labels DNA. (Bottom): Staining of the cells with the after incubation of the antibody with blocking peptide, concentration: 5 ng/ul.



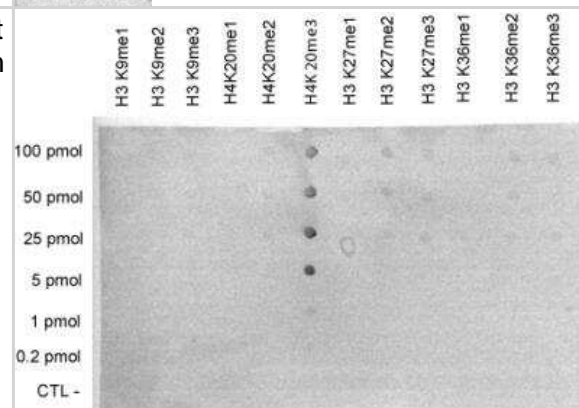
Chromatin Immunoprecipitation: Histone H4 [Trimethyl Lys20] Antibody [NBP2-59259] - ChIP assays were performed using undifferentiated human teratocarcinoma cells (NCCIT), the antibody against H4K20me3 and optimized PCR primer sets for qPCR. Sheared chromatin from 10,000 cells was used per ChIP experiment. The antibody was tested at two different dilutions of 1:500 and 1:100. The pre-immune serum (PI) was used as a negative control. Quantitative PCR was performed using primer sets for the satellite repeat Sat2 as a positive control and for the promoter of the house keeping gene c-fos, as a negative control. Figure 1 shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis). These results are in accordance with the observation that H4K20me3 is preferably present at heterochromatin.



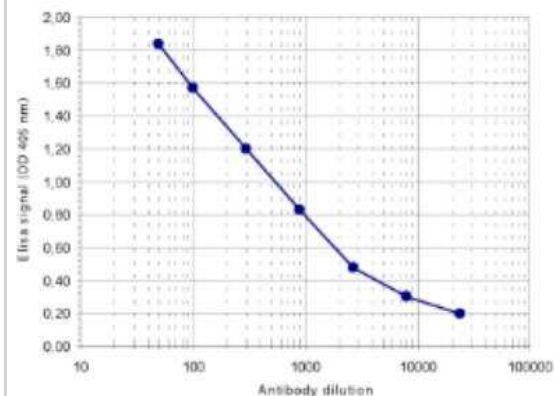
Western Blot: Histone H4 [Trimethyl Lys20] Antibody [NBP2-59259] - Histone (acid) extracts of NB4 cells were analysed by Western blot using the Diagenode antibody against H4K20me3, diluted 1:750 in TBS-Tween containing 5% skimmed milk. The location of the protein of interest is indicated on the right.



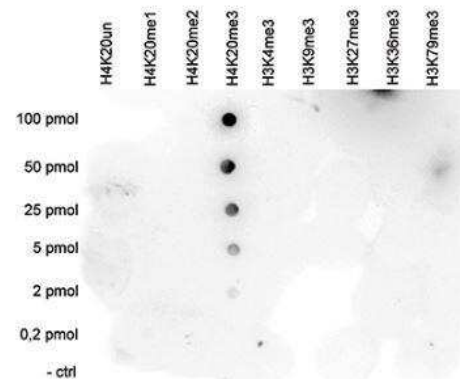
Dot Blot: Histone H4 [Trimethyl Lys20] Antibody [NBP2-59259] - Dot Blot was used to check the specificity of the antibody against H4K20me3 with peptides containing other modifications of histone H3 and H4. Other histone modifications include mono and dimethylation of the same lysine and mono-, di- and trimethylation of lysines 9, 27 and 36 of H3. One hundred to 0.2 pmol of peptide containing the respective histone modification were spotted on a membrane. The antibody was used at a dilution of 1:1,000. Figure shows a high specificity of the antibody for the modification of interest.



**ELISA: Histone H4 [Trimethyl Lys20] Antibody [NBP2-59259]** - To determine the titer, an ELISA was performed using a serial dilution of the Diagenode antibody directed against H4K20me3. The antigen used was a peptide containing the histone modification of interest. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:700.



**Dot Blot: Histone H4 [Trimethyl Lys20] Antibody [NBP2-59259]** - A Dot Blot analysis was performed to test the cross reactivity of Histone H4 [Trimethyl Lys20] Antibody with peptides containing other histone modifications and the unmodified H4K20. One hundred 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 NBP2-59259**

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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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