

# Product Datasheet

## Histone H3 [Trimethyl Lys20] Antibody NBP2-54620

Unit Size: 50 ug

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

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Updated 8/8/2023 v.20.1

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**NBP2-54620****Histone H3 [Trimethyl Lys20] Antibody**

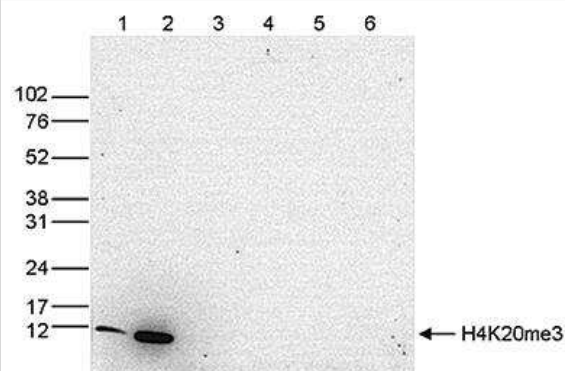
Product Information	
Unit Size	50 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide and 0.05% ProClin 300
Isotype	IgG
Purity	Affinity purified
Buffer	PBS
Target Molecular Weight	15 kDa

Product Description	
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Mouse
Immunogen	This Histone H3 [Trimethyl Lys20] antibody was developed against H4K20Me3

Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/Immunofluorescence, Protein Array, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:1000, ELISA 1:500, Immunocytochemistry/Immunofluorescence 1:500, Dot Blot 1:20000, Protein Array 1:10000, Chromatin Immunoprecipitation (ChIP) 0.5-1 ug/IP, Chromatin Immunoprecipitation Sequencing

**Images**

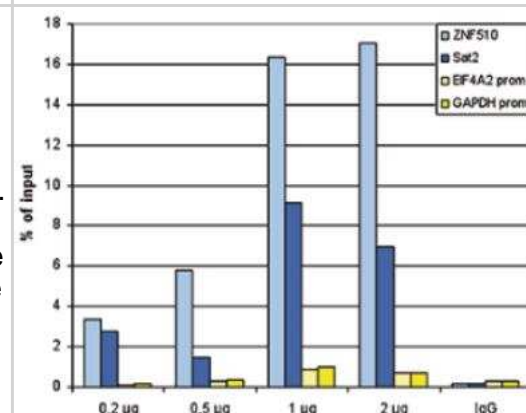
Western Blot: Histone H3 [Trimethyl Lys20] Antibody [NBP2-54620] - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H4K20me3. The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~11 kDa.



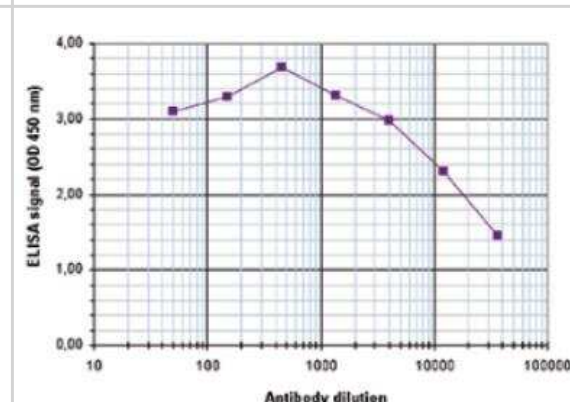
**Immunocytochemistry/Immunofluorescence: Histone H3 [Trimethyl Lys20] Antibody [NBP2-54620]** - HeLa cells were stained with the antibody against H4K20me3 and with DAPI. Cells were fixed with methanol and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H4K20me3 antibody (left) diluted 1:500 in blocking solution followed by an anti-rabbit antibody conjugated to Alexa Fluor 488. The middle panel shows staining of the nuclei with DAPI. A merge of the two stainings is shown on the right.



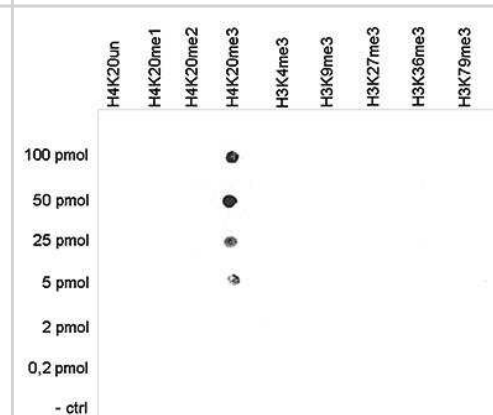
**Chromatin Immunoprecipitation: Histone H3 [Trimethyl Lys20] Antibody [NBP2-54620]** - ChIP assays were performed using human K562 cells, the antibody against H4K20me3 and optimized PCR primer sets for qPCR. ChIP was performed on sheared chromatin from 100,000 cells. A titration of the antibody consisting of 0.2, 0.5, 1 and 2 µg per ChIP experiment was analysed. IgG (1 µg/IP) was used as negative IP control. QPCR was performed with primers for promoters of the active genes EIF4A2 and GAPDH, used as negative controls, and for ZNF510 and the Sat2 satellite repeat region used as positive controls. Figure 1 shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).

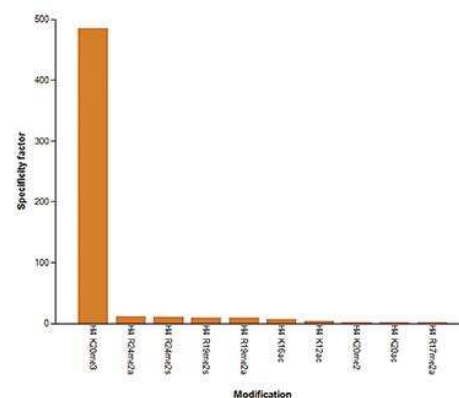


**ELISA: Histone H3 [Trimethyl Lys20] Antibody [NBP2-54620]** - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H4K20me3 in antigen coated wells. The antigen used was a peptide containing the histone modification of interest. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:21,700.



**Dot Blot: Histone H3 [Trimethyl Lys20] Antibody [NBP2-54620]** - To test the cross reactivity of the antibody against H4K20me3. A Dot Blot analysis was performed 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 NBP2-54620**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB21-1143PEP	Histone H3 [Trimethyl Lys18] Antibody Blocking Peptide

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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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