

# Product Datasheet

## Histone H4 [Monomethyl Lys20] Antibody (5E10-D8) - BSA Free NBP1-30091

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-30091**

Histone H4 [Monomethyl Lys20] Antibody (5E10-D8) - BSA Free

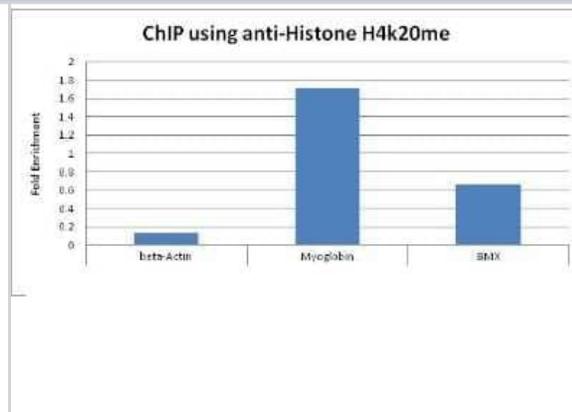
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	5E10-D8
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	Tris-Glycine and 0.15M NaCl
Target Molecular Weight	11 kDa

Product Description	
Host	Mouse
Gene ID	121504
Gene Symbol	H4C16
Species	Human, Mouse, Rat, C. elegans, Drosophila, Mammal, Yeast
Reactivity Notes	Predicted to react all mammals
Immunogen	Branched peptide found between amino acids 10-100 of Histone H4. [UniProt# P62805]

Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:1000, ELISA 1:100-1:2000, Immunocytochemistry/ Immunofluorescence 1:200, Dot Blot 1:2000, Chromatin Immunoprecipitation (ChIP) 1:10-1:500
Application Notes	This Histone H4 [Monomethyl Lys20] (5E10-D8) antibody is useful in Chromatin Immunoprecipitation, Dot Blot, ELISA, Immunocytochemistry/Immunofluorescence and Western blot. In WB a band is seen at ~11 kDa.

**Images**

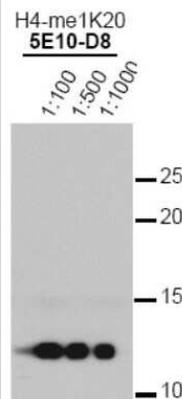
Chromatin Immunoprecipitation: Histone H4 [Monomethyl Lys20] Antibody (5E10-D8) [NBP1-30091] - HeLa extracts.



Immunocytochemistry/Immunofluorescence: Histone H4 [Monomethyl Lys20] Antibody (5E10-D8) [NBP1-30091] - A431 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with Histone H4 [Monomethyl Lys20] Antibody [5E10-D8] (NBP1-30091) at 1 ug/ml overnight at 4C and detected with an anti-mouse DyLight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



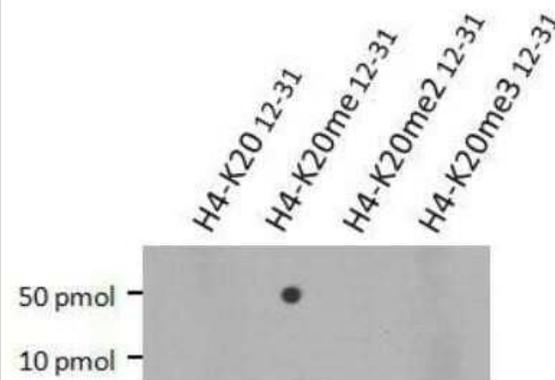
Western Blot: Histone H4 [Monomethyl Lys20] Antibody (5E10-D8) [NBP1-30091] - Analysis of Histone H4 me1K20 in HeLa histone lysates.



Immunocytochemistry/Immunofluorescence: Histone H4 [Monomethyl Lys20] Antibody (5E10-D8) [NBP1-30091] - Histone H4 [methyl Lys20] staining in HeLa cells detected with a DyLight 488 labeled secondary antibody (Green) with Hoechst 33258 nuclear counterstain (Blue).



Dot Blot: Histone H4 [Monomethyl Lys20] Antibody (5E10-D8) [NBP1-30091] - Analysis of Histone H4 me1K20 with 50 pmol or 10 pmol of peptides corresponding to amino acids 12-31 of Histone H4 bearing unmodified, monomethylated, dimethylated or trimethylated K20.



## Procedures

### Protocol specific for Histone H4 [K20-me1] Antibody (NBP1-30091)

Histone H4 [Monomethyl Lys20] Antibody (5E10-D8):

Procedure Guide for NBP1-30091- Histone H4 [K20-me1] Antibody

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 40 ug of total protein per lane.
  2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
  3. Rinse membrane with dH<sub>2</sub>O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
  4. Rinse the blot in TBS for approximately 5 minutes.
  5. Block the membrane using 5% BSA in TBS + Tween, 1 hour at RT.
  6. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
  7. Dilute the mouse anti-Histone H4 [K20-me1] primary antibody (NBP1-30091) in blocking buffer and incubate 1 hour at room temperature.
  8. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
  9. Apply the diluted mouse-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
  10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
  11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).
- Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

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### **Products Related to NBP1-30091**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-30091B	Histone H4 [Monomethyl Lys20] Antibody (5E10-D8) [Biotin]

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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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