

# Product Datasheet

## Histone H3 [Monomethyl Lys9] Antibody - BSA Free NBP2-59204

Unit Size: 50 ug

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

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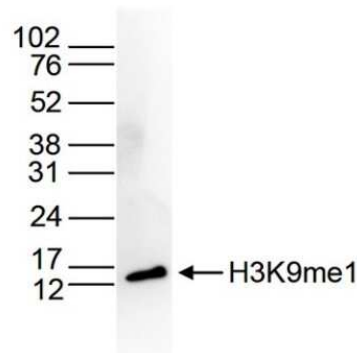
**NBP2-59204**

Histone H3 [Monomethyl Lys9] Antibody - BSA Free

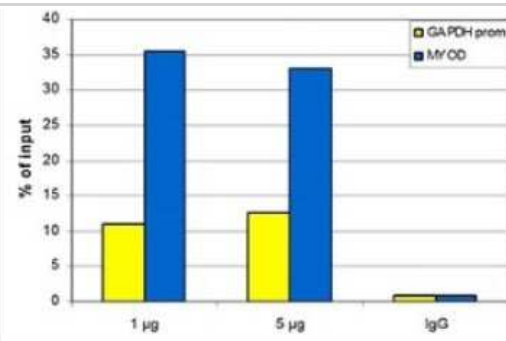
<b>Product Information</b>	
<b>Unit Size</b>	50 ug
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide and 0.05% ProClin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Peptide affinity purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	15 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit Histone H3 [Monomethyl Lys9] Antibody - BSA Free (NBP2-59204) is a polyclonal antibody validated for use in WB, ELISA and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	126961
<b>Gene Symbol</b>	H3C14
<b>Species</b>	Human
<b>Immunogen</b>	The exact sequence of the immunogen to this Histone H3 [Monomethyl Lys9] antibody is proprietary.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Dot Blot, ELISA, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	Western Blot 1:1000, ELISA 1:500 - 1:1000, Dot Blot 1:20000, Chromatin Immunoprecipitation (ChIP) 1 ug/IP

## Images

**Western Blot:** Histone H3 [Monomethyl Lys9] Antibody [NBP2-59204] - Histone H3 Antibody [NBP2-59204] - Histone extracts (15 ug) from HeLa cells were analysed by Western blot using the antibody against H3K9me1 diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~15 kDa.



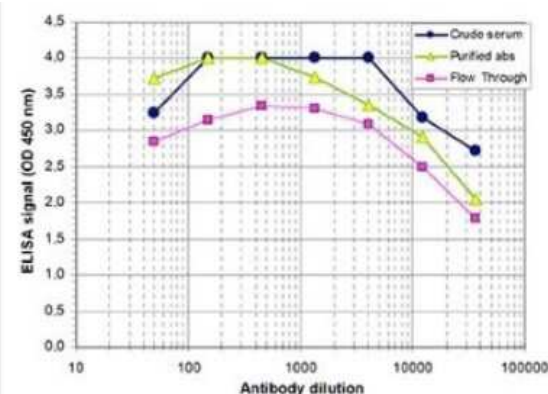
**Chromatin Immunoprecipitation:** Histone H3 [Monomethyl Lys9] Antibody [NBP2-59204] - Histone H3 Antibody [NBP2-59204] - ChIP assays were performed using human HeLa cells, the antibody directed against H3K9me1 and optimized PCR primer sets for qPCR. ChIP was performed using sheared chromatin from 10,000 cells. Respectively 1 and 5 ug of the antibody and 5 ug of IgG (negative IP control) were used per ChIP experiment. QPCR was performed with primers for the GAPDH promoter and for the inactive gene MYOD. Figure 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 H3K9me1 is preferably present at silent genes.



**Dot Blot:** Histone H3 [Monomethyl Lys9] Antibody [NBP2-59204] - Histone H3 Antibody [NBP2-59204] - A Dot Blot analysis was performed to test the cross reactivity of the antibody against H3K9me1 with peptides containing other modifications and the unmodified sequence of histone H3. One hundred to 0.2 pmol of the peptide containing the respective histone modification 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.



**ELISA:** Histone H3 [Monomethyl Lys9] Antibody [NBP2-59204] - Histone H3 Antibody [NBP2-59204] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against human H3K9me1, crude serum and flow through 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 1:68,000.





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### **Products Related to NBP2-59204**

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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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