

# Product Datasheet

## Histone H4 [Dimethyl Arg3] Antibody - BSA Free NBP2-59265

Unit Size: 50 ug

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

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Updated 9/9/2025 v.20.1

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**NBP2-59265**

Histone H4 [Dimethyl Arg3] Antibody - BSA Free

Product Information	
<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

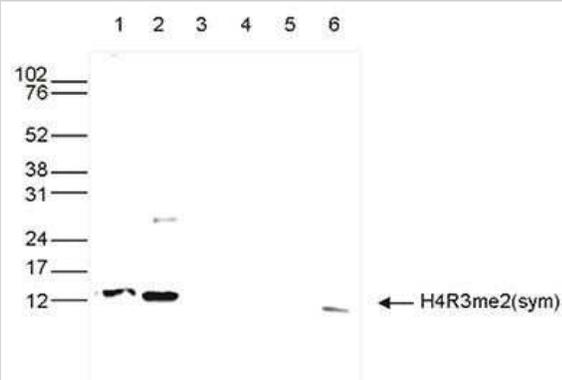
Product Description	
<b>Description</b>	Novus Biologicals Rabbit Histone H4 [Dimethyl Arg3] Antibody - BSA Free (NBP2-59265) is a polyclonal antibody validated for use in WB, ELISA and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	121504
<b>Gene Symbol</b>	H4C16
<b>Species</b>	Human
<b>Immunogen</b>	The exact immunogen is proprietary information.

Product Application Details	
<b>Applications</b>	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot 1:1000, ELISA 1:500, Immunocytochemistry/ Immunofluorescence 1:500, Dot Blot 1:5000, Immunofluorescence 1:500

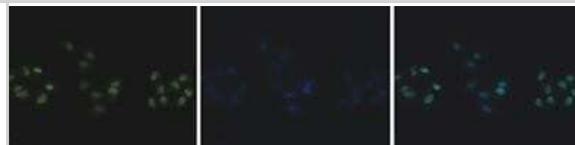


## Images

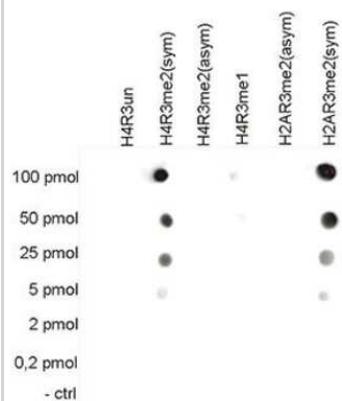
**Western Blot: Histone H4 [Dimethyl Arg3] Antibody [NBP2-59265]** - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H4R3me2(sym). The antibody was 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 (kDa) is shown on the left.



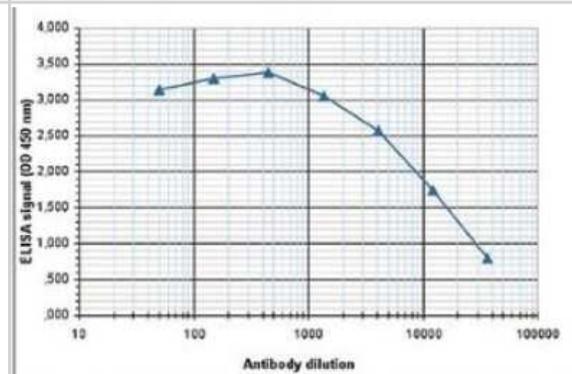
**Immunocytochemistry/Immunofluorescence: Histone H4 [Dimethyl Arg3] Antibody [NBP2-59265]** - HeLa cells were stained with the antibody against H4R3me2(sym) and with DAPI. Cells were fixed with 4% formaldehyde for 10 minutes and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H4R3me2(sym) 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.



**Dot Blot: Histone H4 [Dimethyl Arg3] Antibody [NBP2-59265]** - To test the cross reactivity of the antibody against H4R3me2(sym), a Dot Blot analysis was performed with peptides containing other histone arginine methylations and the unmodified H4R3. One hundred to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:5,000. Figure shows the antibody is specific for the H4R3 symmetric dimethylation and also recognizes the H2AR3 symmetric dimethylation.



**ELISA: Histone H4 [Dimethyl Arg3] Antibody [NBP2-59265]** - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H4R3me2(sym) 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 1:11,750.





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### **Products Related to NBP2-59265**

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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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