

Product Datasheet

Histone H3 [Trimethyl Lys79] Antibody - BSA Free NBP2-59205

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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NBP2-59205

Histone H3 [Trimethyl Lys79] 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
Target Molecular Weight	15 kDa

Product Description

Description	Novus Biologicals Rabbit Histone H3 [Trimethyl Lys79] Antibody - BSA Free (NBP2-59205) 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	126961
Gene Symbol	H3C14
Species	Human, Mouse, Yeast
Immunogen	The exact sequence of the immunogen to this Histone H3 [Trimethyl Lys79] antibody is proprietary.

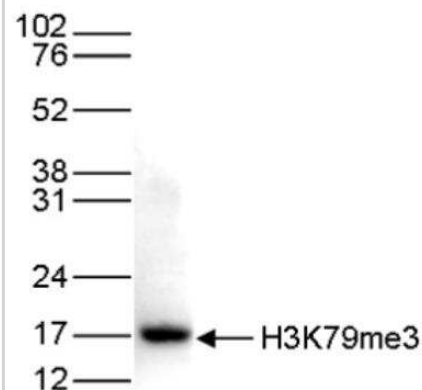
Product Application Details

Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:1000, ELISA 1:500, Immunocytochemistry/ Immunofluorescence, Dot Blot 1:100000, Chromatin Immunoprecipitation (ChIP) 1-2 ug/IP, Chromatin Immunoprecipitation Sequencing

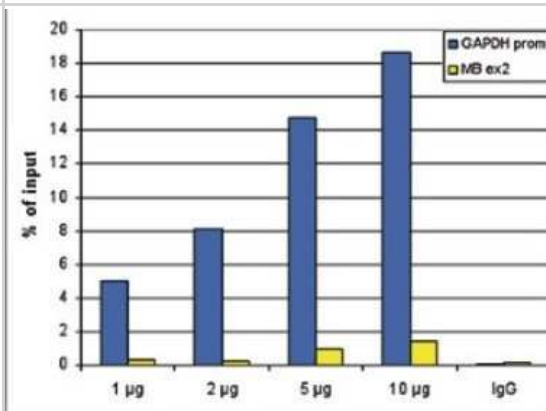


Images

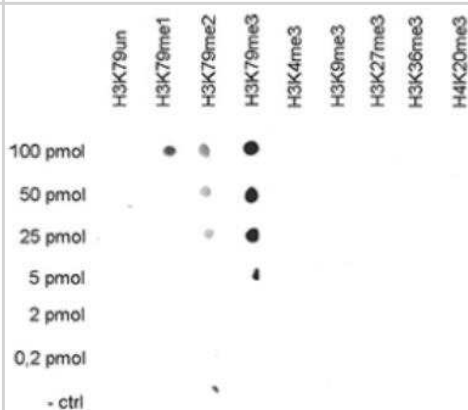
Western Blot: Histone H3 [Trimethyl Lys79] Antibody [NBP2-59205] - Histone extracts of HeLa cells (15 ug) were analysed by Western blot using the antibody against H3K79me3, diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~17 kDa.



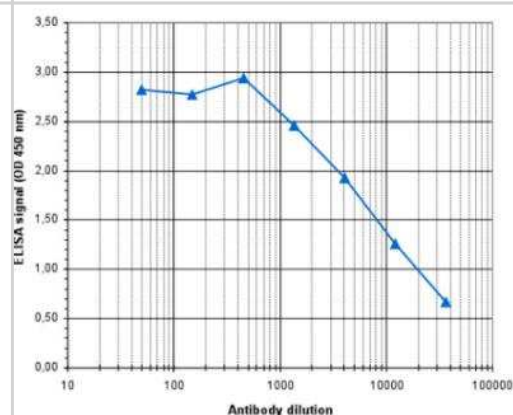
Chromatin Immunoprecipitation: Histone H3 [Trimethyl Lys79] Antibody [NBP2-59205] - ChIP was performed with the antibody against H3K79me3 on sheared chromatin from 1 million HeLaS3 cells using a ChIP-seq kit. A titration of the antibody consisting of 1, 2, 5 and 10 ug per ChIP experiment was analysed. IgG (5 ug/IP) was used as negative IP control. Quantitative PCR was performed with primers for the GAPDH promoter and for exon 2 of the inactive myoglobin gene. 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 H3K79me3 shows a preference for active promoters.



Dot Blot: Histone H3 [Trimethyl Lys79] Antibody [NBP2-59205] - A Dot Blot analysis was performed to test the cross reactivity of the antibody against H3K79me3 with peptides containing other histone modifications and the unmodified H3K79. One hundred to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:100,000. Figure shows a high specificity of the antibody for the modification of interest.



ELISA: Histone H3 [Trimethyl Lys79] Antibody [NBP2-59205] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of antibody directed against H3K79me3 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 1:8,500.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-59205

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB21-1037PEP	Histone H3 [Monomethyl Lys4, p Thr6] Antibody Blocking Peptide

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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