

# Product Datasheet

## Histone H3 [Dimethyl Lys4, Sym-dimethyl Arg2] Antibody - BSA Free NB21-1202

Unit Size: 0.05 mg

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

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**NB21-1202**

Histone H3 [Dimethyl Lys4, Sym-dimethyl Arg2] Antibody - BSA Free

Product Information	
Unit Size	0.05 mg
Concentration	0.91 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Target Molecular Weight	15 kDa

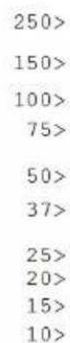
Product Description	
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Mouse, C. elegans
Reactivity Notes	Predicted to react with many species including rat, chicken, Xenopus, Drosophila, and plant based on 100% sequence homology.
Immunogen	This Histone H3 [Dimethyl Lys4, Sym-dimethyl Arg2] antibody was raised against synthetic symmetric dimethylated/dimethylated peptide surrounding Arginine 2 / Lysine 4 of human Histone H3.2 [Swiss Prot# Q71DI3].
Notes	Epi-Plus antibody production in collaboration with Rockland Immunochemicals Inc.

Product Application Details	
Applications	Western Blot, Dot Blot, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:500, Immunocytochemistry/ Immunofluorescence 1:100, Dot Blot 1:1000, Chromatin Immunoprecipitation (ChIP) 2-5 ug per million cells
Application Notes	This Histone H3 R2sym-me2/K4me2 antibody is useful for ChIP, ICC/IF, Dot Blot, and Western Blot where a band is seen at ~15 kDa in NIH 3T3 histone prep and C. elegans embryo lysate.

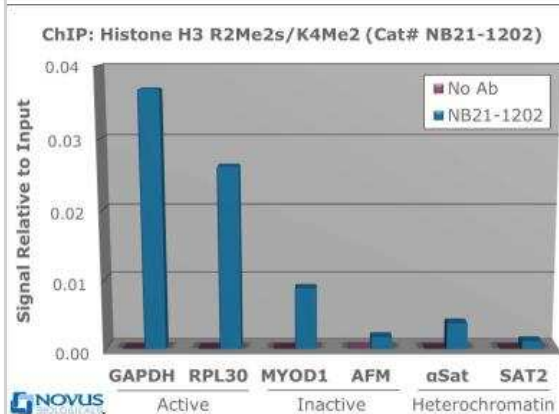
**Images**

Western Blot: Histone H3 [Dimethyl Lys4, Sym-dimethyl Arg2] Antibody [NB21-1202] - Analysis of Histone H3 R2me2s/K4Me2 in C. elegans embryo lysate. Observed molecular weight is ~13 kDa.

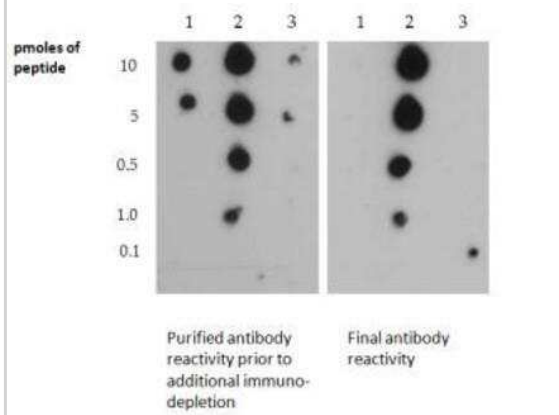
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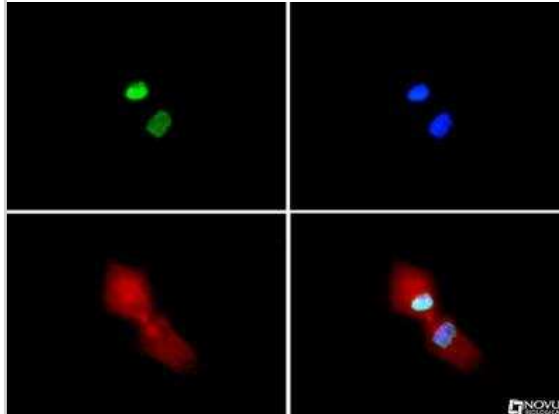
**Chromatin Immunoprecipitation: Histone H3 [Dimethyl Lys4, Sym-dimethyl Arg2] Antibody [NB21-1202]** - Chromatin from one million formaldehyde cross-linked HeLa cells was used with 2ug of NB21-1202 and 20ul of magnetic IgG beads per immunoprecipitation. A no antibody (No Ab) control was also used. Immunoprecipitated DNA was quantified using quantitative real-time PCR and SYBR green dye, then normalized to the non-precipitated input chromatin, which is equal to one.



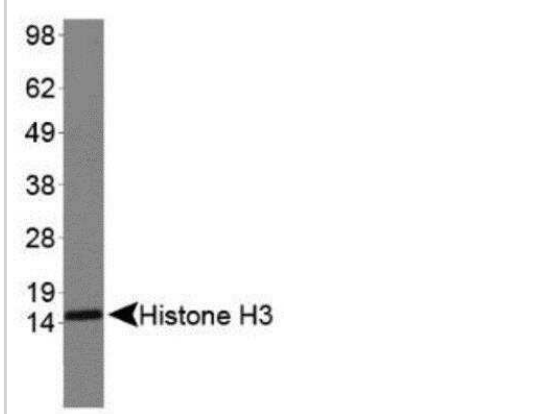
**Dot Blot: Histone H3 [Dimethyl Lys4, Sym-dimethyl Arg2] Antibody [NB21-1202]** - Analysis of H3R2me2s/K4Me2 in picomoles of peptide. Lanes (1) R2Me2 only, (2) Both Modifications, and (3) K4Me2.



**Immunocytochemistry/Immunofluorescence: Histone H3 [Dimethyl Lys4, Sym-dimethyl Arg2] Antibody [NB21-1202]** - Histone H3.2 R2me2s/K4me2 antibody was tested in HeLa cells with FITC (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 594 (red).



**Western Blot: Histone H3 [Dimethyl Lys4, Sym-dimethyl Arg2] Antibody [NB21-1202]** - Analysis of Histone R2 in NIH 3T3 histone preps. Observed molecular weight is ~15 kDa.



## Publications

Fishman J, Homon A, Lamsa E et al The Complete Chemical Synthesis of Histones H3 H4 Containing Epigenetic Modifications Their Use in Characterizing Arginine Methylated Histone Antibodies Poster presented at ASCB 21st Century Biochemicals, Marlborough, MA 01752, Novus Biologicals, LLC, 8100 Southpark Way, Littleton, CO 80120. The Complete Chemical Synthesis of Histones H3 and H4 Containing Epigenetic Modifications and Their Use in Characterizing Arginine Methylated Histone Antibodies. Poster presented at ASCB 21st Century Biochemicals, Marlborough, MA 01752, Novus Biologicals, LLC, 8100 Southpark Way, Littleton, CO 80120.





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### Products Related to NB21-1202

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NB21-1202PEP	Histone H3 [Sym-dimethyl Arg2, Dimethyl Lys4] Antibody Blocking Peptide
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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