Product Datasheet

Histone H3 Antibody
NB21-1251SS

Unit Size: 0.025 mg

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

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Updated 6/15/2014 v.20.1

NB21-1251SS

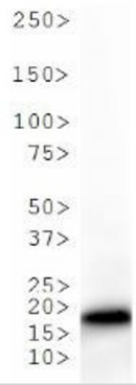
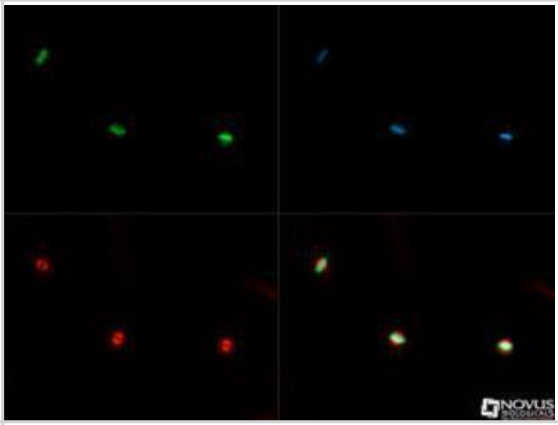
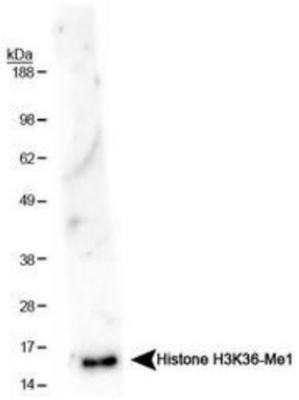
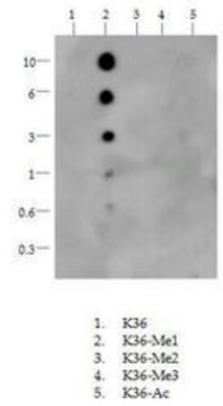
Histone H3 [Monomethyl Lys36] Antibody

Product Information	
Unit Size	0.025 mg
Concentration	0.45 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
Purity	Immunogen affinity purified
Buffer	PBS, 30% glycerol

Product Description	
Host	Rabbit
Gene ID	126961
Gene Symbol	HIST2H3C
Species	Human, Mouse, C. elegans
Species Reactivity	Human, mouse, and C. elegans. Predicted to react with many species including rat, chicken, Xenopus, Drosophila, and plant based on 100% sequence homology.
Marker	Nuclear Marker
Immunogen	Synthetic monomethylated peptide surrounding Lysine 36 of human Histone H3.2 [Swiss Prot Q71DI3].
Notes	0.05 mg of HeLa histone preps will be included in the shipment along with the primary antibody as an appropriate positive control. For SDS-PAGE with the positive control we recommend loading 0.01 mg per lane. Epi-Plus antibody production in collaboration with Rockland Immunochemicals Inc. *Chromatin immunoprecipitation was performed on this product with a standard set of primers that amplify active gene loci (GAPDH, RPL30), inactive loci (MYOD1, AFM), and heterochromatic loci (alphaSat, SAT2). The resulting data indicated there was little to no amplification of these sites, which corresponds with the current literature. Until a more specific locus can be established and validated, we give this product validity for ChIP and it is backed by the full Novus guarantee. Epi-Plus antibody production in collaboration with Rockland Immunochemicals Inc.

Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, Dot Blot, Immunocytochemistry/Immunofluorescence
Recommended Dilutions	Chromatin Immunoprecipitation 2-5 ug per million cells, Dot Blot 0.5 ug/ml, Immunocytochemistry/Immunofluorescence 1:500, Western Blot 1:1000
Application Notes	This Histone H3 K36me1 antibody is useful for Dot Blot, ChIP*, ICC/IF and Western Blot where a band is seen ~15kDa in HeLa histone prep and C. elegans embryo lysate. In ICC/IF, nuclear staining was observed in HeLa cells.

Images

Western Blot: Histone H3 [Monomethyl Lys36] Antibody [NB21-1251] - WB analysis of Histone H3 K36me1 in C. elegans embryo lysate.	
Immunocytochemistry/Immunofluorescence: Histone H3 [Monomethyl Lys36] Antibody [NB21-1251] - Histone H3 K36me1 antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).	
Western Blot: Histone H3 [Monomethyl Lys36] Antibody [NB21-1251] - Western blot analysis of H3 K36me1 in HeLa histone preps.	
Dot Blot: Histone H3 [Monomethyl Lys36] Antibody [NB21-1251] - Dot blot analysis of H3 K36me1 using the peptides stated in 10, 6, 3, 1, 0.6 and 0.3 picomoles of peptide.	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Multi-Assay Validated

Procedures

Protocol specific for Histone H3K36me1 Antibody (NB21-1251)
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10 ug of histone preps per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted 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 three 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.

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.

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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.

For more information on our guarantee, please visit www.novusbio.com/guarantee.