

Product Datasheet

Histone H4 [ac Lys16] Antibody - BSA Free NB21-2077

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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NB21-2077

Histone H4 [ac Lys16] Antibody - BSA Free

Product Information	
Unit Size	0.05 mg
Concentration	0.62 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

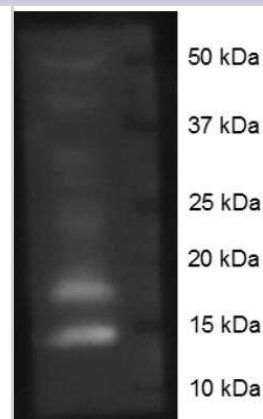
Product Description	
Description	Novus Biologicals Rabbit Histone H4 [ac Lys16] Antibody - BSA Free (NB21-2077) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-Histone H4 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	121504
Gene Symbol	H4C16
Species	Human, Mouse, Rat, Porcine, Mammal
Reactivity Notes	Predicted to react with most mammal species.
Marker	H4k16ac
Immunogen	Synthetic acetylated peptide surrounding Lysine 16 of human Histone H4 [Swiss Prot P62805].
Notes	EpiPlus antibodies are produced in collaboration with Rockland Immunochemicals Inc.

Product Application Details	
Applications	Western Blot, Dot Blot, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (Negative)
Recommended Dilutions	Western Blot 1:1000, Immunocytochemistry/ Immunofluorescence 1:100, Dot Blot 1:1000, Chromatin Immunoprecipitation (Negative)
Application Notes	This H4K16ac antibody is useful for Western Blot, Immunocytochemistry/Immunofluorescence, and Dot Blot. In Western Blot, a band is seen ~13kDa in HeLa histone prep and NIH 3T3 histone prep. In ICC/IF, nuclear staining was observed in HeLa cells. This antibody is not applicable for Chromatin Immunoprecipitation.

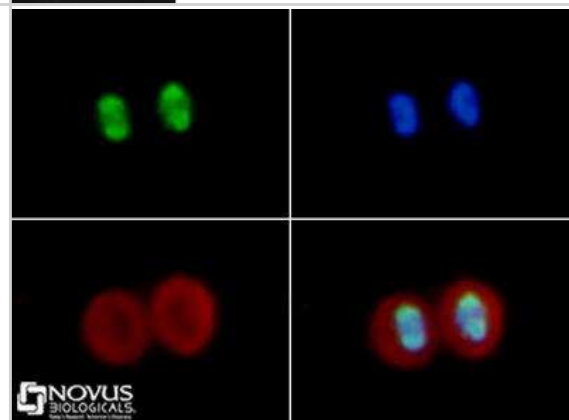


Images

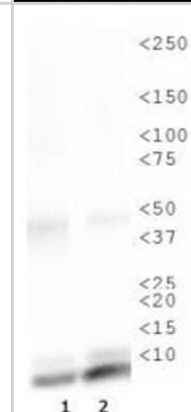
Western Blot: Histone H4 [ac Lys16] Antibody [NB21-2077] - Western Blot using NB21-2077 of porcine whole ovarian homogenate. Image submitted via verified customer review.



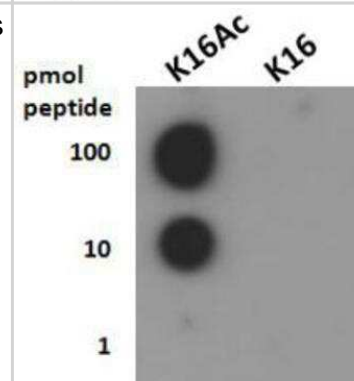
Immunocytochemistry/Immunofluorescence: Histone H4 [ac Lys16] Antibody [NB21-2077] - Histone H4 K16ac antibody was tested in HeLa cells with FITC (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



Western Blot: Histone H4 [ac Lys16] Antibody [NB21-2077] - WB analysis of H4K16ac in 1) HeLa histone prep lysate and 2) NIH 3T3 histone prep lysate.



Dot Blot: Histone H4 [ac Lys16] Antibody [NB21-2077] - Dot blot analysis of H4K16ac in picomoles of protein.



Histone H4 [ac Lys16] Antibody [NB21-2077]



Publications

Rishi JK, Timme K, White HE et al. Obesity partially potentiates dimethylbenz[a]anthracene-exposed ovotoxicity by altering the DNA damage repair response in mice Biology of reproduction 2023-01-25 [PMID: 36702632] (WB, Mouse)

Details:

Dilution used in WB 1:500

Gonzalez-Alvarez ME Investigating the Ovarian Impacts of Zearalenone Exposure and Influence of Altered Body Composition on Ovotoxicity Thesis 2021-01-01

Alvarez MEG, McGuire BC, Keating AF Obesity alters the ovarian proteomic response to zearalenone exposure Biology of reproduction 2021-04-14 [PMID: 33855340]



Procedures

Protocol specific for H4K16ac antibody (NB21-2077)

Histone H4 [ac Lys16] Antibody:

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%.

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*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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Products Related to NB21-2077

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

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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