

Product Datasheet

Histone H2a Antibody - BSA Free NB100-56346

Unit Size: 0.1 mg

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

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NB100-56346

Histone H2a Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 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	Protein G purified
Buffer	PBS

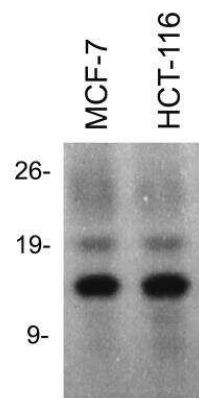
Product Description	
Description	Novus Biologicals Rabbit Histone H2a Antibody - BSA Free (NB100-56346) is a polyclonal antibody validated for use in IHC, WB, ELISA and Flow. Anti-Histone H2a Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	8338
Gene Symbol	H2AC20
Species	Human, Mouse, Sheep
Reactivity Notes	Use in Sheep reported in scientific literature (PMID:32849530).
Immunogen	This antibody was generated by immunizing rabbits with a mixture of synthetic peptides containing amino acid residues 1-15 (MSGRGKQGGKARAKA) and 81-96 (PRHLQLAIRNDEELNK) of human Histone H2A.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunohistochemistry
Recommended Dilutions	Western Blot 2 ug/ml, Flow Cytometry reported in scientific literature (PMID 32849530), ELISA 1:2000, Immunohistochemistry, Immunohistochemistry-Paraffin 5 ug/ml
Application Notes	A 14 kDa band is observed.

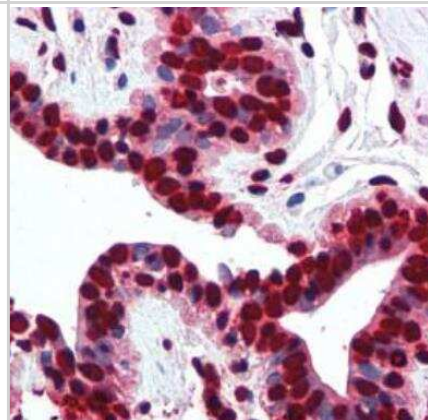


Images

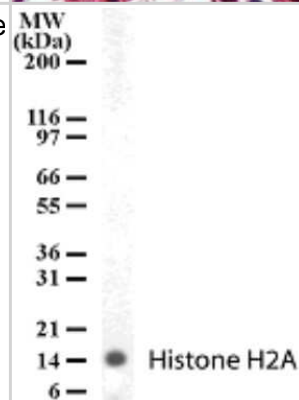
Western Blot: Histone H2a Antibody [NB100-56346] - Histone H2A in MCF-7 and HCT-116 cells. Image from verified customer review.



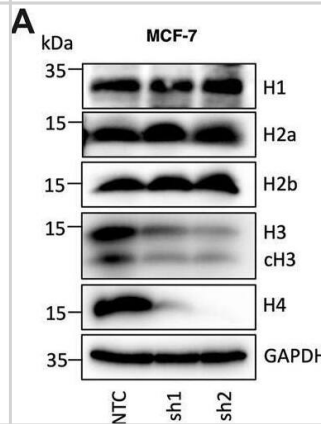
Immunohistochemistry-Paraffin: Histone H2a Antibody [NB100-56346] - Human breast probed with Histone H2A antibody at 5 ug/ml. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



Western Blot: Histone H2a Antibody [NB100-56346] - Analysis of Histone H2A in human PBMC lysate probed with Histone H2A antibody.



Histone H3 and H4 protein expression is regulated by CTSV. (A) Western blotting analysis of histone protein expression shows a reduction in histone H3 and H4 in CTSV depleted cells, with no impact on histones H1, H2a and H2b. (B) Confirmation of CTSV impact on histone H3 and H4 was ascertained using rescue experiments and the re-expression of CTSV in shCTSV-1 cells. GAPDH expression was used as an internal loading control and data presented is representative of at least three independent experiments. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38026973>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Dong, Y;Chen, Y;Wang, Y;Zhao, X;Zi, R;Hao, J;Ding, Q;Jiang, H;Wang, X;Lu, F;Liang, H;Wei, Z;Li, J; Cancer-associated fibroblasts derived fibronectin extra domain A promotes sorafenib resistance in hepatocellular carcinoma cells by activating SHMT1 Genes & diseases 2024-11-01 [PMID: 39286657]

Tam FF, Ning KL, Lee M et al. Cytokine induction of HIF-1 α during normoxia in A549 human lung carcinoma cells is regulated by STAT1 and JNK signalling pathways Molecular immunology 2023-06-07 [PMID: 37295053] (WB, Human)

Agazio A, Cimons J, Shotts K et al. Histone H2A-Reactive B Cells Are Functionally Anergic in Healthy Mice With Potential to Provide Humoral Protection Against HIV-1 Front. Immunol. 2020-07-22 [PMID: 32849530] (FLOW, Sheep)

Dai Bo, Giardina Charles, Rasmussen Theodore P. Quantitation of nucleosome acetylation and other histone posttranslational modifications using microscale NU-ELISA. Methods Mol Biol. 2013-01-01 [PMID: 23381861]

Dai B, Rasmussen TP. Global epiproteomic signatures distinguish embryonic stem cells from differentiated cells. Stem Cells. 2007-10-01 [PMID: 17641388] (Mouse)

Details:

Nucleosome ELISA (embryonic fibroblasts and stem cell cultures, mouse embryonal carcinoma cells): Supplementary Table 1, also see Fig 2 for information on the Nucleosome ELISA technique and representative data.





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Products Related to NB100-56346

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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