

# Product Datasheet

## Histone H2B, member S Antibody - BSA Free NB100-56347

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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**NB100-56347**

Histone H2B, member S Antibody - BSA Free

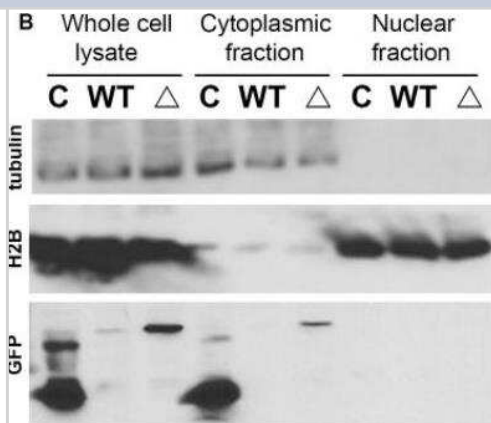
Product Information	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS

Product Description	
<b>Description</b>	Novus Biologicals Rabbit Histone H2B, member S Antibody - BSA Free (NB100-56347) is a polyclonal antibody validated for use in IHC and WB. Anti-Histone H2B, member S Antibody: Cited in 13 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	54145
<b>Gene Symbol</b>	H2BFS
<b>Species</b>	Human, Mouse, Rat, Canine, Chicken, Drosophila, Mammal, Zebrafish
<b>Immunogen</b>	This antibody was generated by immunizing rabbits with a synthetic peptide corresponding to amino acid residues 111-125 AVSEGTKAVTKYTSS of human Histone H2B; GenBank no. CA119747.1.

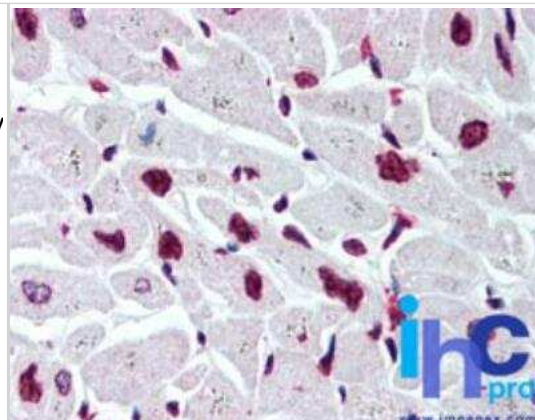
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunoblotting, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 2 ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin 10 ug/ml, Immunoblotting reported in scientific literature (PMID 28235947)
<b>Application Notes</b>	A 15 kDa band is observed. This antibody is routinely quality controlled in human lysates.

**Images**

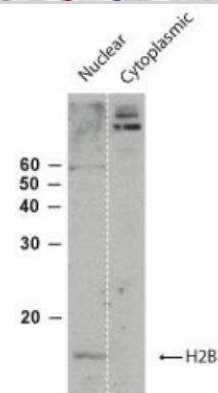
Western Blot: Histone H2B, member S Antibody [NB100-56347] - Doxycycline-inducible stable cell lines expressing TDP43 variants. Immunoblotting of whole-cell lysates and cytoplasmic and nuclear fractions for alpha-tubulin (cytoplasmic marker; top panel), H2B (nuclear marker; middle panel), and eGFP (a marker for expression of the eGFP-His-tagged doxycycline-inducible plasmids) following subcellular fractionation of the control. Image collected and cropped by CiteAb from the following publication (<https://www.frontiersin.org/article/10.3389/fncel.2020.00117/full>), licensed under a CC-BY license.



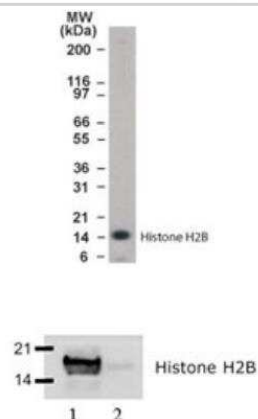
Immunohistochemistry-Paraffin: Histone H2B, member S Antibody [NB100-56347] - Human heart stained with Histone H2B antibody at 10 ug/ml. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



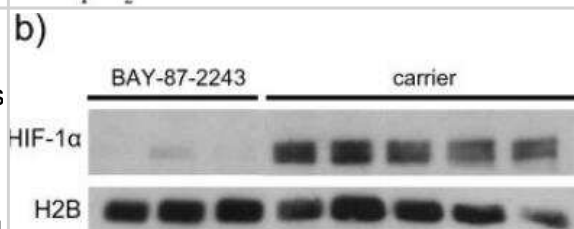
Western Blot: Histone H2B, member S Antibody [NB100-56347] - Analysis of Histone H2B using NB100-56347 at 1:250 in nuclear and cytoplasmic fractions made from Drosophila head extracts using Novus' Nuclear Extraction Kit. Data courtesy of Dr. Jerry Yin, University of Wisconsin-Madison.



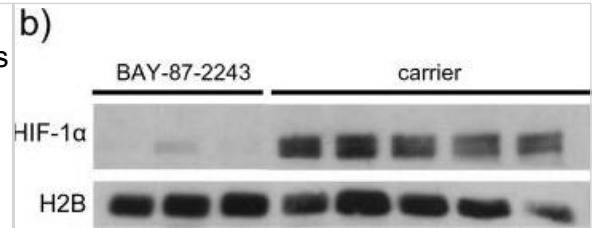
Western Blot: Histone H2B, member S Antibody [NB100-56347] - Top: Analysis of Histone H2B in human PBMC lysate with this antibody. Bottom: Western blot analysis of fractionated Cos-7 cells using this antibody anti-Histone H2B. Cos-7 cells were fractionated into nuclear cytosolic/membrane fractions. Approximately 15 ug of each fraction was separated on SDS PAGE. Lane 1) Nuclear fraction Lane 2) Cytosolic/membrane fraction.



Western Blot: Histone H2B, member S Antibody [NB100-56347] - BAY-87-2243 inhibits nuclear HIF-1alpha protein expression. UT-SCC-5 tumors were treated either with BAY-87-2243 or carrier for 3, 5, or 7 days and were excised 24 h after end of treatment. Western blots of nuclear HIF-1alpha from different animals 3 days after BAY-87-2243 application. Quantification of western blots by densitometry relative to histone-H2B, means +/- SD. Image collected and cropped by CiteAb from the following publication (<https://ro-journal.biomedcentral.com/articles/10.1186/1748-717X-9-207>), licensed under a CC-BY license.



BAY-87-2243 inhibits nuclear HIF-1 $\alpha$  protein expression. UT-SCC-5 tumors were treated either with BAY-87-2243 or carrier for 3, 5, or 7 days and were excised 24 h after end of treatment: a) immunohistochemistry, black arrows indicate the positive nuclear HIF-1 $\alpha$  staining, scale bar: 20  $\mu$ m; b) western blots of nuclear HIF-1 $\alpha$  from different animals 3 days after BAY-87-2243 application; c) quantification of western blots by densitometry relative to histone-H2B, means  $\pm$  SD.



**Publications**

Rieckhoff J, Meyer F, Classen S et al. Exploiting Chromosomal Instability of PTEN-Deficient Triple-Negative Breast Cancer Cell Lines for the Sensitization against PARP1 Inhibition in a Replication-Dependent Manner Cancers (Basel) 2020-09-29 [PMID: 33003585] (WB, Human)

Paez-Colasante X, Figueroa-Romero C, Rumora AE et al. Cytoplasmic TDP43 Binds microRNAs: New Disease Targets in Amyotrophic Lateral Sclerosis Front Cell Neurosci 2020-05-12 [PMID: 32477070] (WB, Human)

Malik AM, Miguez RA, Li X et al. Matrin 3-dependent neurotoxicity is modified by nucleic acid binding and nucleocytoplasmic localization Elife. 2018-07-16 [PMID: 30015619] (WB, Rat)

Archbold HC, Jackson KL, Arora A et al. TDP43 nuclear export and neurodegeneration in models of amyotrophic lateral sclerosis and frontotemporal dementia. Sci Rep. 2018-03-15 [PMID: 29545601] (Rat)

Nechemia-Arbely Y, Fachinetti D, Miga KH et al. Human centromeric CENP-A chromatin is a homotypic, octameric nucleosome at all cell cycle points. J. Cell Biol. 2017-02-24 [PMID: 28235947]

Myllynen L, Kwiatkowski M, Gleibner L et al. Quantitative proteomics unveiled: Regulation of DNA double strand break repair by EGFR involves PARP1. Radiother Oncol 2015-09-25 [PMID: 26422459] (WB, Human)

Chen SC, Huang SY, Lin WT et al. Aortic smooth muscle cell alterations in mice systemically exposed to arsenic. Heart Vessels 2015-07-02 [PMID: 26135927] (WB, Mouse)

Qin Weiping, Pan Jiangping, Wu Yong et al. Protection against dexamethasone-induced muscle atrophy is related to modulation by testosterone of FOXO1 and PGC-1alpha. Biochem Biophys Res Commun. 2010-12-17 [PMID: 21094144] (Rat)

Helbig L, Koi L, Bruchner K et al. BAY 87-2243, a novel inhibitor of hypoxia-induced gene activation, improves local tumor control after fractionated irradiation in a schedule-dependent manner in head and neck human xenografts. Radiat Oncol. 2014-09-24 [PMID: 25234922] (WB, Human)

**Details:**

Histone H2B antibody used as loading control for WB at 1:500 dilution on nuclear fractions from UT-SCC-5 xenografts -human squamous cell carcinoma /hSCC of the tongue UT-SCC-5 with hypoxia-induced activation of HIF-1 alpha (Figure 1b).

Myllynen L. Regulation of DNA Repair by EGF Receptor Signaling After X-Irradiation. Thesis. 2014-01-23 (WB, Human)

**Details:**

UTSCC5 & SAS head/neck squamous cell carcinoma cells, Fig 21C, D. The expression of H2B was analyzed in the chromatin-bound fractions of the cells.

Banerjee M, Datta M, Majumder P et al. Transcription regulation of caspase-1 by R393 of HIPPI and its molecular partner HIP-1. Nucleic Acids Res. 2010-01-01 [PMID: 19934260] (WB)

Golks A, Tran TT, Goetschy JF, Guerini D. Requirement for O-linked N-acetylglucosaminyltransferase in lymphocytes activation. EMBO J. 2007-10-17 [PMID: 17882263]

More publications at <http://www.novusbio.com/NB100-56347>





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### **Products Related to NB100-56347**

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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

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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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