Product Datasheet

HBsAg Antibody - BSA Free
NB100-62652

Unit Size: 0.5 ml

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

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Publications: 30

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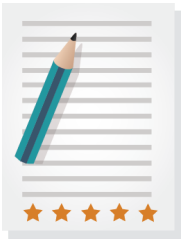
Updated 2/21/2025 v.20.1



NB100-62652

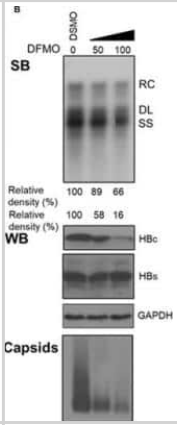
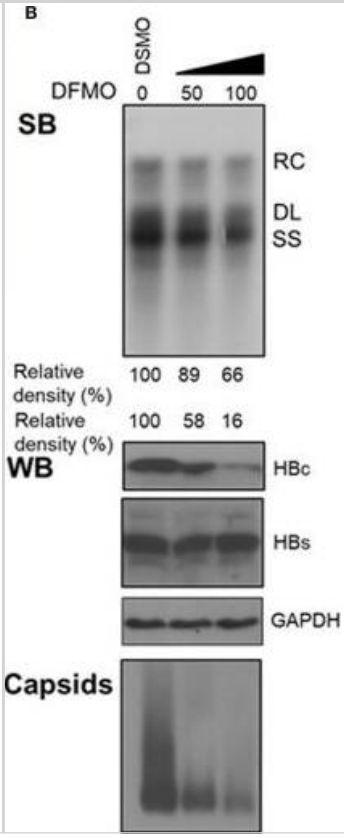
HBsAg Antibody - BSA Free

Product Information	
Unit Size	0.5 ml
Concentration	4.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	944569
Gene Symbol	S
Species	Viral
Specificity/Sensitivity	This product is specific for Hepatitis B surface antigen, recognizing subtypes ad and ay. Hepatitis B virus is a major causative agent of acute and chronic liver disease in humans. Hepatitis B surface antigen (HBsAg) is a protein component of the viral envelope, which is expressed predominantly in the cytoplasm of infected hepatocytes.
Immunogen	Hepatitis B subtypes ad and ay

Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:1000-1:3000, ELISA 1:10000, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen

Images

Western Blot: HBsAg Antibody [NB100-62652] - HepAD38 cells were treated with DFMO (50 uM, 100 uM), and the HBV core-associated DNA was extracted 3 days later and measured by Southern blot (upper panel). The levels of HBc and HBs were measured by Western blotting, and capsids levels were determined using a Native gel assay (lower panel). Image collected and cropped by CiteAb from the following publication (frontiersin.org/article/10.3389/fcimb.2020.00158/full), licensed under a CC-BY license.	
Western Blot: HBsAg Antibody [NB100-62652] - DFMO decreases the HBV core-associated DNA & the HBc protein levels. (A) Determination of cytotoxicity of HepAD38 & HepG2.2.15 cells treated DFMO measured by the MTS assay. (B) HepAD38 cells were treated with DFMO (50 μM, 100 μM), & the HBV core-associated DNA was extracted 3 days later & measured by Southern blot (upper panel). The levels of HBc & HBs were measured by Western blotting, & capsids levels were determined using a Native gel assay (lower panel) as described above. (C) The levels of HBsAg in supernatant were measured by ELISA assay as described above. (D) HBV 3.5kb RNA levels were measured by real-time RT-PCR. (E) & (F) HepG2.2.15 cells treated with DFMO (50, 100 μM) for 3 days, then the levels of intracellular HBV DNA or HBsAg levels in the supernatant were detected by real-time PCR (E) or ELISA assay (F). (G) DFMO decreased the infection capacity of the HBV particles. HepAD38 cells in the absence of tetracycline were treated with DSMO or DFMO with indicated concentration for 3 days, & the HBV viral particles were then collected & added to the HepG2-NTCP cells. Five days later, the cytoplasmic viral DNA were extracted & measured by real-time PCR. RC, relaxed circular; DL, double stranded linear; SS, single stranded. Experiments were performed in triplicate, & data are represented as means ± SD. Statistical significance was determined by one-way ANOVA with the Tukey post-hoc test (*p < 0.05; ns, not significant). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/32373551), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Dewinter J, Onaiwu MG, Massolo ML et Al. Short report: Recommendations for education, clinical practice, research, and policy on promoting well-being in autistic youth and adults through a positive focus on sexuality and gender diversity Autism 2023-08-02 [PMID: 37530121]

Li R, Wang C, Xu K et al. Asiatic acid inhibits HBV cccDNA transcription by promoting HBx degradation Virology Journal 2024-10-28 [PMID: 39468627]

Ye Y, Fu Y, Lin C et al. Oncostatin M induces IFITM1 expression to inhibit hepatitis B virus replication via JAK-STAT signaling Cellular and molecular gastroenterology and hepatology 2023-10-23 [PMID: 37879404]

Jeong GU, Ahn BY, Jung J et al. A recombinant human immunoglobulin with coherent avidity to hepatitis B virus surface antigens of various viral genotypes and clinical mutants PLOS ONE 2020-08-13 [PMID: 32790777]

Xie H, Xie D, Zhang J et al. ROS/NF-?B Signaling Pathway-Mediated Transcriptional Activation of TRIM37 Promotes HBV-Associated Hepatic Fibrosis Molecular Therapy - Nucleic Acids 2020-12-01 [PMID: 32916597] (Immunohistochemistry, Immunohistochemistry-Paraffin)

Qin YP, Yu HB, Yuan SY et al. KAT2A Promotes Hepatitis B Virus Transcription and Replication Through Epigenetic Regulation of cccDNA Minichromosome Frontiers in Microbiology 2022-01-24 [PMID: 35140694]

Shen Z, Yang H, Yang S et al. Hepatitis B virus persistence in mice reveals IL-21 and IL-33 as regulators of viral clearance Nature Communications 2017-12-14 [PMID: 29242561]

Mao B, Wang Z, Pi S et al. Difluoromethylornithine, a Decarboxylase 1 Inhibitor, Suppresses Hepatitis B Virus Replication by Reducing HBc Protein Levels Frontiers in Cellular and Infection Microbiology 2020-04-16 [PMID: 32373551] (Western Blot)

Zheng Y, Yang L, Yu L et al. Canocapavir Is a Novel Capsid Assembly Modulator Inducing a Conformational Change of the Linker Region of HBV Core Protein Viruses 2023-05-18 [PMID: 37243280] (WB)

Yi J, Lei X, Guo F et al. Codelivery of Cas9 mRNA and guide RNAs edits hepatitis B virus episomal and integration DNA in mouse and tree shrew models Antiviral Research 2023-05-01 [PMID: 37142191] (WB, Mouse, Tree Shrew)

Pantazica AM, van Eerde A, Dobrica MO et al. The "humanized" N-glycosylation pathway in CRISPR/Cas9-edited Nicotiana benthamiana significantly enhances the immunogenicity of a S/preS1 Hepatitis B Virus antigen and the virus-neutralizing antibody response in vaccinated mice Plant biotechnology journal 2023-02-13 [PMID: 36779605] (WB, Virus)

Fang R, Ming T, Ng JPL et al. Ciliatoside A, isolated from Peristrophe japonica, inhibits HBsAg expression and cccDNA transcription by inducing autophagy Antiviral research 2022-12-07 [PMID: 36496141] (Western Blot, Human)

More publications at http://www.novusbio.com/NB100-62652

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Products Related to NB100-62652

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
KA0286	HBsAg ELISA Kit (Colorimetric)

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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