

Datasheet for ABIN731303

anti-HBSAg antibody

11 Publications

[Go to Product page](#)

Overview

| | |
|--------------|--|
| Quantity: | 100 µL |
| Target: | HBSAg (HBsAg) |
| Reactivity: | Virus, Human, Mouse |
| Host: | Goat |
| Clonality: | Polyclonal |
| Conjugate: | This HBSAg antibody is un-conjugated |
| Application: | ELISA, Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

Product Details

| | |
|-----------------------|-----------------------------------|
| Immunogen: | Human Hepatitis B Surface Antigen |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Virus |
| Predicted Reactivity: | Bee |
| Purification: | Purified by Protein A. |

Target Details

| | |
|-------------------|--|
| Target: | HBSAg (HBsAg) |
| Alternative Name: | HBsAg (HBsAg Products) |

Target Details

Target Type: Viral Protein

Background: Synonyms: HBsAg, HBV major surface antigen, HBV surface antigen, Hepatitis B Virus major surface antigen, Major surface antigen, S, Human Hepatitis B Surface Antigen

Background: Hepatitis B Virus (HBV) infection induces a disease state characterised by liver damage, inflammation and viral persistence. Infection also increases the risk of hepatocellular carcinoma. HBV belongs to the Hepadnaviridae family of viruses. Its genome consists of partially double stranded circular DNA. The DNA is enclosed in a nucleocapsid, or core antigen (HBcAg), which is surrounded by a spherical envelope (surface antigen or HBsAg). The core antigen shares its sequences with the e antigen (HBeAg) but no cross reactivity between the two proteins has been observed. The HBV genome also encodes a DNA polymerase that also acts as a reverse transcriptase. Hepatitis B infection is normally diagnosed from serological tests that detect HBsAg but as the disease progresses this antigen may no longer be present in the blood and tests for HBcAg are used. If HBsAg can be detected in the blood for longer than six months, chronic hepatitis B is diagnosed. The antigenic determinant of the protein moiety of the HBsAg determines specific characteristics of different serotypes and provides the basis of immunodetection. HBsAg has antigenic heterogeneity, specifically, two pairs of sub specific determinants, d/y and w/r allow the following combinations: adw, ayw, adr, ayr.

UniProt: [Q67926](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.02 % Proclin300 and

Handling

| | |
|--------------------|--|
| | 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20°C for 12 months. |
| Expiry Date: | 12 months |

Publications

Product cited in:

Andriamandimby, Olive, Shimakawa, Rakotomanana, Razanajatovo, Andrianinarivomanana, Ravalohery, Andriamamonjy, Rogier, Héraud: "Prevalence of chronic hepatitis B virus infection and infrastructure for its diagnosis in Madagascar: implication for the WHO's elimination strategy." in: **BMC public health**, Vol. 17, Issue 1, pp. 636, (2018) ([PubMed](#)).

Sakurai, Mitani, Yamamoto, Takayama, Tachibana, Watashi, Wakita, Iijima, Tanaka, Mizuguchi: "Human induced-pluripotent stem cell-derived hepatocyte-like cells as an in vitro model of human hepatitis B virus infection." in: **Scientific reports**, Vol. 7, pp. 45698, (2017) ([PubMed](#)).

Nakabori, Hikita, Murai, Nozaki, Kai, Makino, Saito, Tanaka, Wada, Eguchi, Takahashi, Suemizu, Sakamori, Hiramatsu, Tatsumi, Takehara: "Sodium taurocholate cotransporting polypeptide inhibition efficiently blocks hepatitis B virus spread in mice with a humanized liver." in: **Scientific reports**, Vol. 6, pp. 27782, (2016) ([PubMed](#)).

Ito, Ando, Nakamura, Ishida, Kanbe, Kobiyama, Yamamoto, Ishii, Hara, Seishima, Ishikawa: "Induction of humoral and cellular immune response to hepatitis B virus (HBV) vaccine can be upregulated by CpG oligonucleotides complexed with Dectin-1 ligand." in: **Journal of viral hepatitis**, (2016) ([PubMed](#)).

Yu, Wang, Tian, Wang, Li, Yuan, Chen, Li, Zhuang, Ling: "Comparison of the patterns of antibody recall responses to HIV-1 gp120 and hepatitis B surface antigen in immunized mice." in: **Vaccine**, Vol. 34, Issue 50, pp. 6276-6284, (2016) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)