

HBsAg Antibody HRP Conjugated

Catalog No: #C03511H

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Description

Product Name	HBsAg Antibody HRP Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	WB IHC-P
Species Reactivity	Hu
Immunogen Description	Human Hepatitis B Surface Antigen
Conjugates	HRP
Target Name	HBsAg
Other Names	HBsAg; HBV major surface antigen; HBV surface antigen; Hepatitis B Virus major surface antigen; Major surface antigen; S; Human Hepatitis B Surface Antigen
Accession No.	Swiss-Prot#Q67926
Concentration	1mg ml
Formulation	10mM Tris Buffered Saline containing 1% BSA, 50% glycerol and 0.09% Gentamicin.
Storage	Store at 4C for 12 months.

Application Details

Western blotting: 1:100-1000 Immunohistochemistry: 1:100-500

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.

Published Papers

el at., Hepatitis B virus-related intrahepatic cholangiocarcinoma originates from hepatocytes In *Hepatol Int* On 2023 Oct by Zimin Song?#?1,?Shuirong Lin et al.. PMID: 37368186, , (2023)

[PMID:37368186](https://pubmed.ncbi.nlm.nih.gov/37368186/)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.