

HRP Anti-Hepatitis B Virus Surface Antigen (Ad/Ay) antibody ab20878

Overview

Product name	HRP Anti-Hepatitis B Virus Surface Antigen (Ad/Ay) antibody
Description	HRP Rabbit polyclonal to Hepatitis B Virus Surface Antigen (Ad/Ay)
Host species	Rabbit
Conjugation	HRP
Specificity	Monospecific, reacts only with Hepatitis B surface antigen including the pre-S1 epitope. Non-reactive with normal human serum.
Tested applications	Suitable for: ELISA
Species reactivity	Reacts with: Hepatitis B virus
Immunogen	Tissue, cells or virus corresponding to Hepatitis B Virus Surface Antigen (Ad/Ay). Hepatitis B surface antigen purified from human serum. Mixture of subtypes ad & ay.
General notes	<p>Estimated molar HRP:IgG substitution is 2-3.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.002% Thimerosal (merthiolate) Constituents: PBS, 1% BSA
Purity	Protein A purified
Purification notes	Protein A chromatography purified IgG fraction covalently coupled to a highly purified preparation of horseradish peroxidase (RZ>3). Care is taken to ensure adequate conjugation while preserving maximum enzyme activity. Free enzyme is absent.
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab20878 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		

Application notes

ELISA: Use at an assay dependent dilution.

Suitability for use in Western blot, IHC and IFA has not been determined but use in such assays should not be excluded.

Not tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

Relevance

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.

Cellular localization

Virion membrane

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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