



# Anti-HBV Surface Antigen Polyclonal antibody (DPAB0227)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	Monospecific, reacts only with Hepatitis B surface antigen including the pre-S1 epitope. Non-reactive with normal human serum.
<b>Target</b>	HBV Surface Antigen
<b>Immunogen</b>	Hepatitis B surface antigen purified from human serum. Mixture of subtypes ad & ay.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	HBV
<b>Purification</b>	IgG fraction covalently coupled to a highly purified preparation of horseradish peroxidase (RZ3). Care is taken to ensure adequate conjugation while preserving maximum enzyme activity. Free enzyme is absent. Estimated molar HRP: IgG substitution is 2-3.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	<p>Suitable for use in ELISA. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.</p> <p>Recommended pairs for sandwich immunoassay:</p> <ul style="list-style-type: none"> <li>• <b>Capture</b>  <a href="#">DMAB3526</a>  <a href="#">DMAB3527</a>  <a href="#">DMAB3528</a> </li> <li>• <b>Detection</b>  <a href="#">DPAB0227</a> </li> </ul>

[DPAB0227](#)

[DPAB0227](#)

Suggested pair for testing (Capture - Detection): [DMAB3526](#) - DPAB0227

<b>Format</b>	HRP, Liquid
<b>Concentration</b>	1-2mg/ml (OD280nm, E0.1% = 1.4)
<b>Size</b>	1 ml
<b>Buffer</b>	PBS containing 10mg/ml BSA
<b>Preservative</b>	None
<b>Storage</b>	Short-term (up to 6 months) store at 2-8°C. Long term, aliquot and store at -20 C. Avoid multiple freeze/thaw cycles.

## BACKGROUND

### Introduction

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.

### Keywords

HBsAg; HBV major surface antigen; HBV surface antigen; Hepatitis B Virus major surface antigen; Major surface antigen; S; Hepatitis B Surface Antigen; Hepatitis B Virus Surface Antigen; Hepatitis B virus; Orthohepadnavirus; Hepadnaviridae