



# Anti-HBV Surface Antigen Monoclonal antibody, Clone A090-18512 (DMAB3524)

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

## PRODUCT INFORMATION

<b>Specificity</b>	Hepatitis B Surface Antigen (HBsAg)
<b>Target</b>	HBV Surface Antigen
<b>Immunogen</b>	Recombinant HBsAg of ayw subtype
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	HBV
<b>Clone</b>	A090-18512
<b>Affinity Constant</b>	$5.4 \times 10^{10}$
<b>Purification</b>	90% pure (SDS-PAGE). Protein A chromatography. Product is 0.2µm filtered.
<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="#">DMAB3524</a></li> <li>• <b>Detection</b> <a href="#">DMAB3544</a></li> </ul>

Suggested pair for testing (Capture - Detection): DMAB3524 - [DMAB3544](#)

<b>Format</b>	Purified, Liquid
<b>Concentration</b>	5.13mg/ml (OD280nm, E0.1%=1.4)
<b>Size</b>	1 mg
<b>Buffer</b>	10mM Phosphate, pH 7.4 containing 150mM Sodium chloride
<b>Preservative</b>	0.1% Sodium Azide
<b>Storage</b>	Short term (up to 7 days) store at 2-8°C. Long term, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.

## BACKGROUND

<b>Introduction</b>	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.
<b>Keywords</b>	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; Hepadnaviridae; Orthohepadnavirus; Hepatitis B virus; HBV