



Anti-HBV Surface Antigen Monoclonal antibody, Clone IB14 (DMAB3546)

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

PRODUCT INFORMATION

Specificity	Hepatitis B virus surface antigen. Clone reacts with the following HbsAg subtypes: ayw1, ayw2, ayw3, ayw4, ayr, adw2, adw4, adrq+, adrq-, ayw3 (Fer).
Target	HBV Surface Antigen
Immunogen	Recombinant HBsAg of ayw subtype.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	HBV
Clone	IB14
Affinity Constant	Not determined
Purification	95% pure (SDS-PAGE). Protein G chromatography
Conjugate	Unconjugated
Applications	<p>Detection of HBsAg in two-site enzyme immunoassay. 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"> • Capture DMAB3546 • Detection DMAB3548

Suggested pair for testing (Capture - Detection): DMAB3546 - [DMAB3548](#)

Format	Purified, Liquid
Concentration	3mg/ml (OD280nm, E0.1%= 1.4)
Size	1 mg
Buffer	PBS, pH 7.4
Preservative	0.1% Sodium Azide
Storage	Store at 2-8 C.

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; Hepadnaviridae; Orthohepadnavirus; Hepatitis B virus; HBV