



Anti-HBV Surface Antigen Monoclonal antibody, Clone IB7 (DMAB3549)

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

PRODUCT INFORMATION

Specificity Hepatitis B virus surface antigen. Reactive with the following HBsAg subtypes: ayw1, ayw2, ayw3, ayw4, ayr, adw2, adw4, adr_q+, adr_q-, ayw3 (Fer).

Target HBV Surface Antigen

Immunogen Recombinant HBsAg of ayw subtype.

Isotype IgG1

Source/Host Mouse

Species Reactivity HBV

Clone IB7

Affinity Constant Not determined

Purification 95% pure (SDS-PAGE). Protein G chromatography

Conjugate Unconjugated

Applications 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.

Format HRP, Liquid

Concentration 8.5mg/ml (OD_{280nm}, E_{0.1%}= 1.4)

Size 1 mg

Buffer PBS, pH 7.4 containing 10mg/ml BSA and 50% glycerol

Preservative None

Storage 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 sequence 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
