



Anti-HBV Surface Antigen Monoclonal antibody, Clone A058-17005 (DMAB3544)

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

PRODUCT INFORMATION

Specificity	Hepatitis B Surface Antigen (HBsAg) ay subtype
Target	HBV Surface Antigen
Immunogen	Purified HBsAg subtypes ad and ay
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	HBV
Clone	A058-17005
Affinity Constant	6 x 10 ⁹ L/m (determined by RIA Scatchard plot)
Purification	90% pure (SDS-PAGE). Protein A chromatography. Product is 0.2µm filtered.
Conjugate	Unconjugated
Applications	<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">• Capture DMAB3524• Detection DMAB3544

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

Format	Purified, Liquid
Concentration	4.53mg/ml (OD280nm, E1%= 14)
Size	1 mg
Buffer	10mM Phosphate, pH 7.4 containing 150mM Sodium chloride
Preservative	0.05% Sodium Azide
Storage	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

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