



Rabbit Anti-HBsAg PreS1 (subtypes ad & ay) Polyclonal antibody (DPAB0227)

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

PRODUCT INFORMATION

Specificity	Monospecific, reacts only with Hepatitis B surface antigen including the pre-S1 epitope. Non-reactive with normal human serum.
Target	HBV Surface Antigen
Immunogen	Hepatitis B surface antigen purified from human serum. Mixture of subtypes ad & ay.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	HBV
Purification	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.
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 DMAB3526 DMAB3527 DMAB3528 • Detection DPAB0227

[DPAB0227](#)

[DPAB0227](#)

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

Format	HRP, Liquid
Concentration	1-2mg/ml (OD280nm, E0.1% = 1.4)
Size	1 ml
Buffer	PBS containing 10mg/ml BSA
Preservative	None
Storage	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